No.30,979

Monday October 23 1989

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UK distances itself from South Africa communiqué

The sharp division between Britain and the rest of the Commonwealth over South Africa was underlined last night when Mrs Margaret Thatcher, Prime Minister, distanced herself from key sec-tions in the official communique. She issued a statement elaborating on Britain's differences with the rest of the Commonwealth. Page 20; Communique, Page 2

Electoral boost

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Service of the servic

West Germany's far right strongest ever electoral. advance in communal elections in the southern state of Baden-

Honduran crash

Survivors of a Honduran air crash that killed 132 people said they were given no warn-ing before the Boeing 727 smashed into hills outside Tegucigalna. Page 4

E German travel

East Germany's Communist rulers pledged swift action to ease travel to the West but the country's crisis mounted with more marches for democracy by tens of thousands of people. Rallying point, Page 2

Lebanese talks

Christian deputies said they had accepted a compromise peace plan for Lebanon based on a revised Arab League plan, despite fierce opposition from Christian army chief General Michel Aoun. Page 3

Turks accuse Syria Turkey said wo Syrian MiG-21

fighters shot down a civilian survey aircraft, killing the five people on board, and demanded an explanation. Water row, Page 3

Antarctic protection The 39 signatories to the Antarctic Treaty have agreed, after an acrimonious meeting, to hold a special round of negotiations next year to set up a comprehensive protection system" for the continent's

environment. Page 4 Arafat in Cairo

Palestine Liberation Organisation chairman Yassir Arafat arrived in Cairo for talks with Egyptian President Hosni Mubarak on obstacles to Middle East peace efforts. Baker on Israel, Page 4

Hungary nomination Hungary's main opposition group, the Hungarian Demo-cratic Forum, announced its

candidate for president. The group picked historian Lejos Fur to contest the multi-party elections. Page 2

Zimbabwe arrests The Zimbabwean Government carried out a wave of arrests in advance of four parliamen-tary by elections which take place this week. Page 3

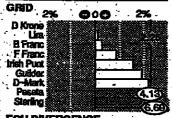
Spain nuclear fire Spain's Industry Ministry was waiting for a report by the Nuclear Security Council before deciding whether to close an ageing nuclear plant which caught fire last week.

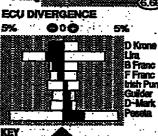
Greek bomber dies-A Greek air force communications expert was killed while planting a bomb at a theatre on the Aegean island of Lesvos where the conservative leader, was scheduled to hold an election rally later. Page 2

in his first public comments since the Wall Street slump. Page 20

week. Both required support and struggled to stay within their cross-rate limits against the West German currency. The French franc was also within the group of weaker EMS currencies, but Paris stated its strong opposition to any devaluation of the franc against the D-Mark.

October 20, 1989





UK GOVERNMENT commitment to using high interest rates to fight inflation and sup-port a weak sterling will be tested to the full tomorrow

EURO DISNEYLAND, European leisure enterprise, will hold a ballot to decide allocations in the heavily oversub-scribed offer for its 10.7m shares to favour small share-

holders. Page 26 SWEDEN'S troubled Saab-Scania company is seeking agreement with a major Euro-

pean car maker after the col-lapse of talks with Ford of the

telepoint licensees. Page 14 **BANQUE Nationale de Paris** strengthened Franco-Italian banking ties by the acquisition of a 2 per cent stake in Credito Romagnolo, Italian bank. Page

the six members of the European Free Trade Association (Bha) Identified key questions for possible real negotiation between Western Europe's two trade blocs next year. Page

UK and UNIRAS, Danish computer graphics company have clean up pollution in Shanghai harbour. Page 14

SONATRACH, Algeria's state oil and gas monopoly is negoti-ating a contract — worth about \$600m — with European and US companies to modern-ise facilities at Arzew, oil and gas export base. Page 6

CONTENTS

The Financial Times 64-page women still being discrimi-survey "Career Choice", to be nated against in certain areas published on November I, will of work? make indispensable reading for both reversers.

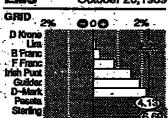
make indispensable reading for both parents and students. It will:

Draw on the FT's reservoir of specialist knowledge about the world of work to examine prospects in more than 50 sectors – from banking and zoology to social work and architecture, a reading the newspaper's editorial philosophy, the breadth often are kept under wraps. Do some employers rely entirely on the "old boy network"? Are

Business Summary **Brady calls** for closer regulation

of markets US TREASURY Secretary Nicholas Brady said federal regulation of financial and securities markets needed to be co-ordinated more closely,

EUROPEAN MONETARY SYS-TEM: A strong D-Mark put pressure on the Danish krone and Italian lira in the EMS last





Limit ECU Parity E Day Position The chart shows the constraints on EMS exchange rates. The upper grid, based on the system's weakest currency, defines the cross-rates from which only the tira and peseta may move by more than 2½, per cent. The lower chart gives currencies divergence from the central rate against the European Currency Unit (Ecu), itself derived from a basket of European

when the September trade fig-ures are released. Page 20

US on co-operation. Page 23 ORBITEL mobile communications, a joint UK venture com-pany set up by the Racal and Plessey electronics groups, entered the new pocket phone market with a range of products aimed at all four of the

EUROPRAN Commission and

BRADFORD University in the won a \$790,600 contract to help

City of London airline analysts, who had supported the THE MONDAY INTERVIEW



Companies -

Companies

As the eighth genera-tion of a wealthy Dutch dynasty, Mr Paul Fen-tener van Vilssingen and his family are pondering the difficult question that faces such dynasties: should the multi-millionpound family busi ness go public? Page 46

21,23 Currencies ...

.4-14 Editorial Comment

Management: A model to be imitated UK Economics: Going over the cliff18 Editorial Comments When justice is on trial; A triumph of common sense18

33

long way off

management in recent days over the US party's handling of the buy-out and its financing. These tensions risk further

undermining the relationship

and their two-year marketing pact, although BA has contin-

ued to insist that the events of

the past few days would not affect their marketing arrange

Lext Small is not so beautiful Printing Technology: Survey27-30 ____ 20 -Wall Street 44-45 -London 49-41 US Bonds Money Markets 42 Unit Trusts 36-39 17 Inti.Capital Markets 22 Observer

Transport: Road haulage single market still a

French spellbound by prime-time language test at the Sorbonne

By lan Davidson in Paris

MORE than 1,200 French It took off like wildfire, to a competition, conducted live the gaps. And yet the instituspeakers this weekend put point where, five years later, world-wide, and broadcast on tion of in dictive seems to epitspeakers this weekend put their knowledge of the lan-guage to the test at the Sor-boune, Paris's ancient univer-sity, in the semi-finals of a competition which has got entirely out of hand.

entirely out of hand.

In 1884 Mr Bernard Pivot, the impish presenter of Apostrophes, French television's top books programme, had the bright idea of launching a national spelling competition.

France, but the championship has also attracted competitors from 45 countries from around the world, from francophone Zaire to Australia.

Saturday night saw the semi-final of this extraordinary

point where, five years later, Les Championnais d'Orthographe has drawn more than 200,000 competitors, a 60 per cent increase on 1988.

The vast majority are from France, but the championship has also attracted competitors

prime time television from the Sorbonne. Of the 8,500 semi-finalists, about 1,200 crowded into the

Grand Amphitheatre of the university to test their skills in a dictation read by Mr Pivot. In some ways it was just a variant of any old television

omise some quintessential aspects of French culture: delight in an infinitely complicated corpus of grammatical rules and exceptions, and a belief that since the rules are

absolute, knowledge can be tested and marked. The dictation exercise also resonates with echoes of a cengame show, with a leggy resonates with echoes of a cen-announcer to give sex-appeal, and some pop stars to fill in French primary school system.

In past competitions, Mr Pivot paid tribute to this tradi-tion by reading the dictation wearing the kind of blue-grey smock once characteristic of the primary-school instituteur. At last Saturday night's semifinal, however, he wore an ordinary jacket: the championship had graduated from the school-room to the television

For the competitors, young

AFICTIC DGEAR Shiokmanovskaya

delightful occasion. To sort out the best from the second best, the text had to be fairly diffi-cult; in fact it could be said to have parted comany with real life, because it contained many words which barely exist out-

ciative experts. They were hav-

Continued on Page 20

side a dictionary. Nevertheless, as Mr Pivot read, he drew waves of groans and laughter from 1,200 appre-

New Russian opposition group poses challenge to Gorbachev

A NEW opposition movement mixing old-fashioned Russian nationalism with calls for a multi-party system was formed yesterday in a fresh challenge to President Mikhail Gorba-

chev of the Soviet Union. The Popular Front of the Russian Federation was cre-ated amid much cheering and waving of Czarist flags at a meeting at Yaroslavi, a town 150 miles north of Moscow. Opponents of the Soviet regime had come to Yaroslavi from all over the Russian republic. If the fragile alliance that

emerged yesterday between political reformers and nationalists holds it could create fresh embarassment for Mr Gorbachev by campaigning effectively in forthcoming local elections.

The Soviet leader is already under pressure because of widespread discontent over food shortages and ethnic ferment in many other republics.

By John Wyles in Rome

THE ITALIAN Government,

under pressure from the US

over the sale of sensitive tech-nology to the Soviet Union, has assembled a report saying that Olivetti — the Italian electron-ics company — may have vio-lated Western restrictions on

The Government's preliminary conclusions follow a quietly determined US campaign

to put Olivetti in the dock for breaching guidelines drawn up by the 17-nation Coordinating

Committee on Multilateral Export Controls (CoCom). President George Bush

expressed US concern at a

recent meeting in Washington with Mr Francesco Cossiga, the

Front in the Soviet Union's largest republic - clearly mod-elled on movements of the same name which combine ethnic and political demands in places ranging from the Baltic states to Central Asia - por-tends fresh turmoil both within and outside the Com-munist Party. Opinion polls suggest that the ruling party's prestige is at an all-time low. If the Front can successfully promote and secure the elec-tion of government officials, it will also fuel assertions that an elementary multi-party system is in effective operation already, despite Mr Gorba-chev's claim that this is "non-

sense" for the Soviet Union. The 99 delegates, representing grass-roots nationalist and anti-establishment groups that have spring up all over Russia in recent months, overcame yawning ideological differences

Olivetti subject of CoCom inquiry

Reginald Bartholomew, the Under-Secretary of State for Security Assistance, is to main-

tain the pressure by visiting pany, which said more than 50 Rome this week.

At a meeting with Mr Gianni involved in installing equipment in the Soviet Union over

eign Minister, he should learn the past three to four years of the results of the Govern-but none of them has

demands include multi-party democracy, the removal from the Soviet constitution of references to the Communist Par-ty's "leading role" in society, an independent judiciary and the delegation of power to elected local assemblies.

Participants ranged from representatives of the Russian-Orthodox Church to leaders of the Siberian coal miners who went on strike this summer, and a movement aligned with the Democratic Union, an ultra-liberal intellectual group.
While the programme that
was finally adopted reflected
liberal ideas, the meetings saw
intense debate over how far the new movement should reflect nostalgic Russian patri-

The Orthodox Church pro-posed setting up a system of party-less democracy in which each street or village would

This is denied by the com-

upgraded any of the equipment

under investigation."

The company said it was "quite normal and open" for Olivetti technicians to install

the company's equipment.
US and European press
reports have suggested the

Bush Administration believes

that Moscow may have used Olivetti technology in develop-

"against great Russian chau-vinism and for equal rights for all nations," was rejected in favour of the more neutral "against all chauvinist and

nationalist propaganda."

The conference voted for ending all subsidies paid by the Russian Republic to the rest of the Soviet Union – and in a new hint that the economic and in the social subsidies and the social subsidies and the social subsidies and s nomic crisis is prompting dis-content over Mr Gorbachev's economic reform – it rejected the idea of full cost-accounting for enterprises in favour of a proposal that would allow firms to remain within a planned economy.

The meeting failed to unite everybody. A representative of the Moscow-based Patriotic Popular Front said that they would hold a congress soon and would invite members of "Pamyat," an anti-Semitic Russian nationalist group, and members of the "United Front to settle on a constitution and a reformist political plan.

However, a proposal that the Popular Front's Popular Front should work reformist organisation.

This ended in Congress

Japanese company had been found to have exported tech-

to prosecute the company.

for Western help on gas development THE Soviet Union has asked a

Soviets ask

group of Western companies to undertake feasibility studies for the development of the world's largest offshore natural gas field.

Estimates of the field's size

are in the range of between 3 trillion and 4 trillion cubic metres, or five or six times larger than the whole of Britain's North Sea gas

The Shtokmanovskaya discovery, in the Barents Sea more than 250 miles north-east of the Arctic port of Murmansk, was announced by Mr Ostap Sheremeta, a senior official in the Soviet Ministry of Italian President. And Mr "upgrade" Olivetti hardware ing a vertical take-off super-Oil and Gas, during a visit to Norway in August. Three test sonic fighter, the Yak 41.

The Washington Post recently quoted an Administrawells have been drilled in the tion source as saying that the Olivetti affair could prove to be as serious as the Toshiba case. The Soviet Union has made

three big gas discoveries in the Barents and Kara Seas which oil industry experts say will restricting US Government purchases of Toshiba equip-ment for three years after the require Western technology and expertise to develop.

This was confirmed at a recent trade meeting between Norway and the Soviet Union nology which helped Moscow to develop extremely quiet subin Moscow when the Soviets expressed interest in Norwe-gian participation in offshore gas field developments in the Barents Sea. The group of commarine propellers.

Mr De Michelis has apparently decided to take a neutral stance with the US, seeking neither to defend Olivetti nor panies involved in the feasibil-

Continued on Page 20

Nato due to launch arms study aimed at achieving consensus

By David White, Defence Correspondent, in London

A STUDY on possible changes in Nato's line-up of nuclear weapons in Europe as a result of an agreement on conven-tional arms reduction is due to be set in train by allied defence ministers this week.

The study, to be carried out by the High Level Group of senior officials which reports to the ministerial Nuclear Planning Group, could have an important bearing on prospects for averting another Nato confrontation over the future of short-range nuclear

At its summit in May, Nato agreed to postpone until 1992 a decision on whether to deploy a follow-on to the current Lance missile in the face of strong opposition to such a move, particularly in West Germany.

Under the compromise, Bonn accepted in principle the need for Nato to keep landbased nuclear weapons, as well as other kinds, "in the present circumstances and as far as can be foreseen." The Nuclear Planning Grou

meeting in southern Portugal tomorrow and Wednesday will seek to avoid a resurgence of the issue, especially in view of the West German elections late next year. It is expected to concentrate on changed perspectives in East-West rela-tions, including the START talks on reducing US and Soviet long-range nuclear weapons, and progress in the Conventional Armed Forces in Europe (CFE) negotiations in

The task of the High Level Group will be to investigate the implications of a CFE treaty for the alliance's Continued on Page 20

Swindon

British Airways admits failure of UAL buy-out is a setback

ment's investigation into Oli-

vetti's commercial exchanges

Rome is understood to have

concluded that Olivetti has not

exported any equipment which breaches CoCom guidelines but that work carried out by the

company's technicians on the

ground in the Soviet Union

could well have served to

with Moscow.

tor, on UAL.

By Paul Betts, Aerospace Correspondent, in London

THE COLLAPSE of the United Airlines \$6.8bn buy-out could have serious longer-term implications for British Airways. Until last week BA saw a financial link with the second-largest US carrier as the main component of its long-term

global growth strategy.

BA appears in the short term to have come out of the UAL financial flasco relatively unscathed and with a stronger balance sheet because of its recent £320m (\$508m) rights issue.

However, senior company officials have acknowledged in the past few days that the collapse of the deal is a setback for the UK airline. BA and Sir Colin Marshall, chief executive, took a gamble last month when the airline decided to participate in the

UAL buy-out by agreeing to invest \$750m for a 15 per cent stake in the US carrier. The move was designed to cement BA's existing marketing links with UAL and safe-guard the UK carrier's inter-ests against a hostile takeover

UAL buy-out plan despite the high cost for BA, continue to regard a link with a US carrier bid launched by Mr Marvin Davis, the Los Angeles inves-However, BA's participation in the buy-out was seen by the as essential in the longer term for the UK flag carrier to con-solidate and expand its posi-tion in the US market, already airline industry as having broader implications and con-

stituting a big step towards an even closer association between the two airlines, evenaccounting for 39 per cent of all its scheduled traffic. The failure of the UAL buyout has also raised a question mark over the recent strategy tually leading to a possible merger.
The events of the last week, of several European airlines such as SAS of Sweden, Swissair, and KLM, the Dutch airline, which have all recently however, have shaken the relationship between the two air-lines and have raised questions over future co-operation between BA and UAL.
Tensions appear to have emerged between BA and UAL

bought stakes in US airlines. Other European airlines such as Lufthansa and Air France have preferred to adopt a more cautious approach to airline stake building and have opted for more conventional marketing agreements.

BA announced on Friday it

would not participate in any UAL deal in the foreseeable future" and had decided to step back to see how the situation evolves in the US.

Continued on Page 20 UAL and the banks, Page 22; New York bonds, Page 24

IT WAS POSSIBLE UNTIL WE CAME TO SWINDON.

Yet it is, as many companies have already discovered. Galileo, the global Travel Reservations Company, set up its International HQ in Swindon after evaluating 16,000 possible site combinations throughout Europe. The advanced telecommunications so vital to Gaffleo were just one of the 30 factors where Swindon scored.

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OVERSEAS NEWS

Hungarian party outlines policies for reconstruction

By Judy Dempsey in Budapest

THE Democratic Forum (MDF). the Hungarian opposition group which is widely expected to be in government next year, has settled on a political programme calling for economic reconstruction through privatisation and foreign investment and also for a loosening of ties with the Warsaw Pact.

The programme, agreed after a three-day convention, was described as reflecting Hun-gary's liberal, Christian Democratic and rural traditions.

The Forum, tipped to gain a majority of seats in next year's free parliamentary elections, outlined its policies amid growing controversy as to how and when Hungary's next President will be chosen.

A recent agreement between the ruling Communists - who recently proclaimed them-selves a Western-style Socialist party – and several opposition groups, including the MDF, provides for the head of state to be chosen by direct elections next month.

But the small Association of Free Democrats, which fears that the short campaign will

give the ruling party an unfair advantage, has already col-lected 250,000 signatures on a call for the president to be cho-sen at a later date, to be decided on by referendum.

The Free Democrats would also prefer the new head of state to be elected by the new parliament, rather than by universal suffrage. At the weekend, despite ear

lier suggestions that the MDF might support the presidential bid of Mr Imre Pozsgay, the most prominent reformer in the ruling party, the conven-tion overwhelmingly elected Mr Lajos Fur, a little-known 58-year-old historian, as its sidential candidate.

MDF officials yesterday said, that given the anti-communist mood in the country, it was wise for the party to distance itself from Mr Pozsgzy.
As expected, the convention

also elected Mr Jozsef Antall, another historian, as its leader. Mr Antall, a politician finely attuned to Hungary's traditions of compromise and prag-matism, declined to say which parties the MDF was prepared to work with in coalition. But he said the MDF would 'pay particular attention" to the question of which party would in future control the defence, interior and transport ministries.

He ruled out any withdrawal from the Warsaw Pact.
The MDF, which has over

20,000 members and 327 branches, agreed on: Reconstruction of the economy, which would entail attracting foreign capital, rebuilding the infrastructure, a privatisation policy, subject to close monitoring, and the re-in-troduction of private owner-ship in agriculture.

● Long-term goal of neutrality in foreign policy. In the short-term, the MDF wants Hungary's role in the Warsaw Pact to be similar to that of France's in Nato - not part of the command structure

• On ethnic questions, the MDF – which is sensitive to allegations of anti-Semitism – called for full protection both for minorities within Hungary and for Hungarians in neigh-

Austere Berlin church becomes rallying point for reformers

By Leslie Colitt in East Berlin

RED-BRICK Protestant church in a working class area of Berlin has become a rallying point for East Germany's reform movement - not unlike the Gdansk shipyard in the early days of the Solidarity

Just as the yard was often off limits for Polish authorities. there is a widening "no-go area" for the East German police around the large, aus-tere Gethsemane church.

Thousands of formerly passive citizens, radicalised by this month's demonstrations, gathered over the weekend at the turn-of-the-century building. It became a haven for demonstrators, pursued by haton-wielding police, after the first big demonstrations in the current wave of protest on Octo-

Paradoxically, the atmo-

sphere is less overtly religious than it was at the Polish ship-yard. In contrast to fervent masses recited by Gdansk workers, there are few who would normally be worship-pers among crowds streaming into the Gethsemane church every evening to attend services calling for release of political prisoners.

One of their purposes is to exchange information. Strangers open up to each other in the flickering light from thou-sands of candles placed outside

the gaunt editice.
"I applied to emigrate in 1986 and lost my job," an ex-employee of a state bakery told a knot of people. "A few weeks ago I joined New Forum (opposition group] when I saw the demonstrations getting bigger and stronger. I've come here every day since." He no longer

wanted to emigrate because "for the first time" there was a chance to change things. "Don't think the Party is going to change," a young carpenter replied. "It has specialised for 40 years in keeping power and won't step down now."

What did they expect from the new leader, Mr Egon Krenz? "We want our opinions to count," said a mechanic. "It wouldn't cost the Party anything. Most people don't want more than a little freedom to travel - at least for the time being," he added.

 A major pro-reform dem-onstration is due to take place today in Leipzig after a weekend of renewed protests throughout East Germany. Last Monday's demonstration by over 100,000 citizens in Leipzig was the largest in East Germany since 1953.

First ANC rally for 29 years permitted

By Michael Holman

THE South African government has given approval for the first African National Congress (ANC) rally in 29 years.

The decision, which was made known as Mrs Margaret Thatcher and the rest of the Commonwealth leaders meeting in Kuala Lumpur, were differing sharply over policy towards South Africa, is likely to reinforce the British prime minister's view that President F.W. de Klerk is initiating significant changes.

Permission for next Satur-

day's raily in Soweto, to be addressed by Mr Walter Sisula and the six other ANC prison-ers released a week ago, marks a further step in the de facto unbauning of the organisation. For its part, the ANC appears to have suspended its guerrilla campaign against Pretoria, although its officials have yet to spell this out.
There have been no reported
violent incidents linked to the
ANC's military wing,
Umkhonto we Sizwe, for

nearly two months. These mutual concessions have brought the two sides closer to direct talks, although negotiations are not expected to take place until Mr Nelson Mandela, the ANC leader, is

Saturday's ANC rally will be the first since the organisation

was banned in 1960.

"Apart from being a wel-coming party, the rally is going to be an occasion at which our leaders will be making a major address to the nation on a whole range of issues," Mr Cyril Ramanhosa, secretary-general of the National Union of Mineworkers, said at the weekend.

Mr Ramaphosa said the National Reception Committee, which is organising the public appearances of the released detainees, had not sought government permission for the rally, to be held in a new soccer stadium near Sow-

But letters had been sent to Mr de Klerk, as well as to the Minister of Justice and to the chief magistrate of Johannes-burg, informing them of the plans.

والمرازع وموسول المحارف فالمستعددة والمستعددة

Pretoria shift may be attainable

The following are the key points in the statement "Southern Africa: the way ahead", issued at the Commonwealth summit

Heads of government continued to view the system of apartheid in South Africa as a serious challenge to the values and principles of the Commonwealth and reaffirmed that its total eradication remained their shared responsibility and

common soaf Significant changes in approach on the part of the South African government, for which the Commonwealth had striven for so long, may yet prove to be within reach.

Heads of government agreed that such encouraging signs as there had been were very much the product of a combination of internal and external

They agreed that the only justification for sanctions against South Africa was the pressure they created for fundamental political change. Their purpose was not puni-tive, but to abolish apartheid by bringing Pretoria to the negotiating table and keeping it there until that change was irreversibly secured.

PROPOSALS for greening of the Commonwealth were painlessly agreed at the weekend with heads of Government accepting the broad outline of the plan put forward by Maiaysia in the so-called Langhawi Declaration, named after the holiday island to which leaders had retreated, Roger Matthews writes.

Representing a quarter of the world's population, the Commonwealth has set out

than Britain, also acknowledged that the impact of sanc-tions had begun to influence the policies of the South Afri-

can government.
Commonwealth heads of government expressed the view that this was not the time to consider any relaxation of existing sanctions and pres-sures. That would have to await evidence of clear and irreversible change.
In the meantime, they

agreed that all existing sanctions and measures should be maintained, and they called upon the wider international community to do likewise.

They also agreed, with the exception of Britain, that such objectives and common goals for improving the environment but, at Britain's instiga-tion, avoided specific commit-

ments on funding.
Britain opposed the establishment of a special fund and Malaysia had made it clear it would be flexible on this

Commonwealth leaders pledged themselves to "immediate and positive action" in support of their declaration.

and decided in this context. (a) to develop new forms of financial pressure on the Pre-toria regime by seeking to intensify and extend financial

sanctions, in particular by,
- calling on all relevant banks and financial institutions to impose tougher conditions on day-to-day trade financing, spe-cifically through reducing the maximum credit terms to 90 days. And.

days. And,

— calling on relevant governments to make trade creditsharder by taking South Africa

"off cover" with official government agencies for official
trade credit and insurance pur-

(b) to strengthen the arms

Heads of government recog nised the importance of South Africa's dealings with the international financial community and therefore, with the exception of Britain, endorsed the establishment of an independent agency to review and report on South Africa's international financial links on a regular basis, and to gather and publicise factual informa-tion on financial flows to, and

policies towards, South Africa.
They welcomed the offer of
Australia to provide substantial initial funding. They agreed to ask appropriate international financial institutions, and in particular the International Monetary Fund, to examine how resources might be mobilised upon evidence of clear and

upon evidence of clear and irreversible change.

With the exception of Britain, hears of government commended the Commonwealth committee of foreign ministers. agreed that it should continue with its work, and that it report again when heads of government next meet. They expressed the wish that it reconvene in April, some six months after the new administration in Pretoria took office.

Heads of government, other Why Britain stood alone on S Africa

Extracts from the British statement, entitled "Southern Africa: the way ahead: the Brit

ish view". Britain is fully at one with the rest of the Commonwealth in utterly condemning apart-heid and wishing to see its total eradication... Britain welcomes the recognition in the Kuala Lumpur statement: • that change is under way in

South Africa; • that sanctions should not be punitive and that the interna-tional community will need to respond to evidence of clear and irreversible change; and
• that both sides should come to the negotiating table in an atmosphere free of violence

from either side. But Britain believes the Commonwealth can help a new South Africa to emerge is much more positive ways that those set out in the Kuala Lumpur Agreement

In Britain's view there have been important and positive changes in South Africa...and there is now a government fully committed to the concept of negotiations.

The Commonwealth should concentrate now on encouraging change rather than on further punishment. Whatever their intention, the effect of sanctions is punitive.

Sanctions contribute to poverty and misery. Britain's efforts are directed to helping relieve poverty throughout

Britain does not agree that sanctions have the political effects claimed for them. The political effect of sanctions is to increase resistance to change rather than encourage change. Opening the way to serious negotiations requires:

The release of Nelson Mandela and all political prisoners; Lifting of the state of emer-

• Unbanning of political organisations;

• The suspension of violence. As and when South Africa does take the necessary steps then it would be right to lift some of the measures imposed by the international community. The aim should be to secure positive influence with the South African government At the same time, Britain

will continue its substantial programme of positive help for black South Africans, and its assistance to the front line states, which since 1980 has totalled £1.1bn.

Britain also gives its meguivocal support to the UN Secretary-General in securing the implementation of Resolu tion 435 in Namibia: It will be for him and his representative alone to judge whether the elections are fully fair and free. Britain is ready in provide financial assistance to an independent Namibia as well as, if asked, military training for its

armed forces.

Britain believes that recent developments in southern Africa show that progress can be made by peaceful negotia-tion. Britain wants the Commonwealth and the interna-tional community to redouble their efforts to support peace-ful change and enable the new South Africa to inherit a strong economy.

rather than add to the same. This will more uner, achieved by the positive and constructive steps set out in this statement than by tightening sanctions and the imposition of new punitive measures as proposed by the rest of the Commonwealth.

FINANCIAL TIMES

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ENJOY WORKING AND I LIKE BREAKFAST BUT I NEVER MIX THE TWO.99

I've always wondered how people can talk about business when what they're really concentrating on is getting the right amount of butter on their toast.

To me a working breakfast, or one that works for me, is a breakfast that gives me time to compose myself and relax before the day begins.

This morning was perfect. I told the waiter when I had to leave, everything came in plenty of time without my having to ask for it and I didn't have to talk to another soul until I'd finished.

By the time I'd left the Marriott I was ready for anyone.



OVERSEAS NEWS

Opposition staff | Shrinking Euphrates raises Turkish-Syrian tension arrested ahead of Scheherazade Daneshkhu and Andrew Gowers see water becoming a weapon in the Kurdish dispute Zimbabwe poll

By Julian Borger in Harare

THE Zimbahwean government taken at a high level, in the has carried out a wave of run-up to the by-elections in arrests in advance of four parliamentary by elections which take place this week. The arrests include officials of the opposition Zimbabwe

Unity Movement, formed this year, which has mounted an energetic challenge to Presi-dent Robert Mugabe's ruling ZANU-PF party.

ZUM's campaign in the

ion before general elections scheduled for next year.

In theory, ZANU-PF should be in its best position for years, having just held "unity" elections and the scheduled schedul northern constituency of Kar-iha has been handicapped since the detention by the Central Intelligence Organisation of 11 tions in the nine provinces this month which finally fused the party together with its former rival, Mr Joshua Nkomo's PF-

activists in the area.
Ten days ago, another group
of ZUM party workers returned to Harare from Kariba having apparently been severely beaten. They say they were assaulted by ZANU-PF youths. The crackdown began on the

Ica

1.7

Marie San Carlotte San Carlotte

The sale

university campus, where the arrest of two student leaders for publishing a document fiercely critical of the govern-ment led to student riots on October 4, and the closure of the campus for the first time in its 32-year history. It reopens for examinations today but 13 students are still in custody, having been refused bail.

When Mr Morgan Tsvangirai, secretary general of the Zimbabwean Congress of Trade Unions, criticised the campus closure, he was also detained by the CIO. Like the students and ZUM activists, the union leader has been held under the emergency powers regulations. that have been in force here since Mr Ian Smith declared Rhodesia independent in 1965.

When Zimbabwe's High Court overturned Mr Tsvangirai's detention on Wednesday last week, deciding his statement did not justify use of the emergency powers, he was immediately rearrested, this time on charges of being a South African spy and agent provocateur.

In the past, critical statements from the students and the trade unions have met with a degree of tolerance from the state, as long as the dissent was confined to paper.

This blanket use of the emer-gency powers suggests a new of confidence is the mainte-get-tough policy decision, nance of price controls.

The four constituencies voting this week are evenly

spread across the county. Kariba in the north, Chiru-

manzu and Masvingo in the central regions, and Gwanda in the south — and should pro-

vide a good test of public opin-

ZAPU. However, the ruling party has been badly hit this year by the revelation of wide-spread corruption among its

Public disillusion with the

party was reflected in July by

a mass stay-away from the

polls in the country's last by-election, when ZANU beat

the two-month-old ZUM opposi-

tion, amid allegations of rig-ging by ZUM's leader, Mr Edgar Tekere.

The reappearance in senior posts, after the party elections, of ZANU-PF officials disgraced

only a few months ago on seri-

ous charges of corruption perhaps explains the apprehen-

sion with which the country's

leaders are approaching this

• After strong growth in the first half of 1989, there are increasing signs that Zimbabwe's economy is slowing

down. Especially hard-hit is

the manufacturing sector, which is suffering from trans-port bottlenecks and a sharp

loss of confidence resulting

from disappointment in the

pace of government reforms.
Following growth of 8.3 per

senior ranks.

week's polls.

ONG-SIMMERING tensions between Turkey and Syria have burst

into the open in the last few weeks, throwing the spotlight on that most sensitive of Mid-dle Eastern issues: the scarcity

Not for the first time, what is arguably the region's most valuable resource is being used as a strategic weapon in the old dispute between the two neighbours over the Kurdish

The question has been brought into focus by an extraordinary outburst from Mr Turgut Ozal, the Turkish Prime Minister who is now running for president. This month, he accused Damascus of breaching a 1987 protocol on security and threatened to cut the flow of the Euphrates river into Syria unless the latter ended support for the Marxist Kurdish Workers Party (PKK). Given the prime minister's current political troubles, his

remarks may well have been aimed at his domestic andience as much as his southern neighbour. But the statement touched a raw nerve in Turk-ish-Syrian relations at a time of severe drought problems in both countries and a growing Kurdish rebellion in southeastern Turkey. It may also have provided an ominous foretaste of problems to come between the states sharing the waters of the Euphrates.

Euphrates~Tigris water projects Keban reservoir (IRAN TURKEY Karakaya dam Tigris

IRAQ

the other.
Separately, Turkey promised to try to maintain the flow of the Euphrates into Syria at an

average of 500 cubic metres per

For a while it seemed to be

working. But a dramatic

upsurge in fighting between Turkish forces and Kurdish insurgents – with the monthly

average death toll more than doubling, from 30 to 70 - has brought renewed expressions

of concern from Ankara about

alleged Syrian support for the PKK.

Turkish officials point to what they are convinced are two PKK training camps in the Syrian-controlled Bekaa valley in eastern Lebanon. Since the summer, they also claim to have detected signs that Kurd.

have detected signs that Kurd-

ish guerrillas are escaping across the border into Syria

river's water originates in the Turkish highlands, running 2,330km (1,460 miles) from Turkey to Syria and then into Iraq. All three countries have rapidly-growing populations and ambitious plans to harness the river's resources.

Mediterranean Sea

Lake SYRIA
Assad Maria dam

But Syria's water supply problem is the worst of the three and its quest for alternative sources could in addition easily lead it into potential conflict with Israel over the Yarmuk river, a tributary of the Jordan.

In Turkish-Syrian relations, the twin issues of Kurds and water surfaced together in July 1987, when Mr Ozal visited Damascus and signed a secu-rity protocol with Syria's Preal-dent Hafez al-Assad under which each country agreed to try to curb terrorist groups car-Nearly 90 per cent of the rying out operations against

after conducting raids in Turkey. More darkly, they mutter

about suspicions activities being undertaken by a new Bulgarian consulate general in the northern Syrian city of Aleppo. This mission - from a country currently at odds with Turkey over an exodus of Turkish speaking inhabitants – is said to be well staffed with Turkish-speaking diplo-mats who the Turks claim make regular forays into Syria's Kurdish areas.

It may be convenient for the Ankara government, which has been heavily criticised in this election year for failing to control the rebellion, to blame the worsening security situation in Turkey's south-eastern provinces on outside forces. But in doing so, it has exposed frictions that are in any case being exacerbated by the water shortage in both countries.

This year has been Turkey's driest in 52 years. The flow of the Euphrates has been sharply reduced, and agriculture and the country's balance of payments are suffering.

The situation is no better in

Syria. With the water level sinking behind the main dam on Lake Assad, which nor-mally generates a sizeable proportion of Syria's electricity supply, major cities have expe-rienced protracted power and water cuts throughout the summer. The country has had to import large amounts of

Syria on Saturday ordered an inquiry into the downing of a Turkish civilian aircraft and offered condolences to the Turkish government, which accused Syrian aircraft of

shooting it down with the loss of five lives, Reuter reports. The Syrian Foreign Ministry said Damascus hoped the inci-dent would not affect relations between the two countries.
Turkey said earlier two Syrian MiG-21 jets shot down on Saturday motning a Turkish survey plane about 13 miles inside Turkish territory.

grain that it can ill afford, and to consume fuel oil that would otherwise have gone for

More to the point, the drought, by reducing the flow of the Euphrates from Turkey, has stoked Syrian unease at being beholden to its northern neighbour for water. At some points during the summer, the flow dropped well below the 500 cu m/sec which Ankara promised to supply – although Turkish officials say that they have topped up the flow to 480 cu m/sec by releasing water from their own Keban and

Karakaya dams. Despite Mr Ozal's recent pronouncement, Ankara denies that it is using water to pressure the Syrians. "It would be very attractive to use water as a weapon, but we have not resorted to that, and the Syri-

ans know it," said one senior official. All the same, the threat remains clearly implied. In the medium to long term, problems between the two countries over water are in any case almost inevitable, given Turkey's continuing dam con-struction work on the Euphrates as part of its ambitious south-east Anatolian development project (GAP). These dams generate more than 40 per cent of Turkey's electricity but have already severely reduced the flow of water into Syria. And the giant Atatürk dam, third and largest of the series, with a storage capacity equivalent to four times the average yearly dis-charge of the Euphrates, is

now nearing completion. The problem is that no for-mal agreement has ever been reached between Turkey and the two downstream states. Syria and Iraq, on sharing out the waters of the Tigris and Euphrates. Tripartite talks held intermittently since the

1960s have recently tapered off.

The potential for disputes between the riparian states in the next few years is clearly enormous. "The situation is bad and getting worse," said Professor Elias Salameh of Jordan University this month at the annual Arab Press Service conference in Cyprus. "Unless [co-operative] steps are taken the water issue will develop into a major conflict in the Middle East."

Spanish nuclear plant comes close to disaster

By Peter Bruce in Madrid

AN ageing nuclear power plant south of Barcelona came close to disaster on Thursday night after one of its two turbine generators exploded, seriously damaging the safety mecha-nisms that cool its reactor. Engineers at the Vandellos I

cent in the manufacturing sector in the first half of the year, plant near Tarragona were yesterday still trying to cool the core of the plant's reactor. Two a survey carried out by the Confederation of Zimbabwe of its four cooling pumps were put out of action by the blast. Industry (CZI) published last week has revealed a sharp decline in expectations on a wide variety of indicators. No one was injured in the blast and there was no escape CZI economists believe the of radiation. But officials were being quoted yesterday as saying the accident was the most serious in a nuclear facility

since the Chernobyl reactor exploded in 1986. Smoke, which had begun to seep into the plant from the central control room, made it nearly impossible to begin

cooling the core.

Vandellos's management has come under criticism from the civil governor in Tarragona for allegedly waiting more than half an hour before alerting the anthorities. The nuclear plant, one of Spain's oldest, was built using French technology in 1972. The gas-cooled plant, which is scheduled to close in 2003, has been shut down and may not produce again.

Swedish tax reform proposals amended

By Robert Taylor in Stockholm

tax reform proposals for 1991 in line with the demands of the powerful blue-collar union organisation, the LO, for a redistributive more

After three weeks of wide-ranging discussions among all Swedish political party leaders and both sides of industry, the Finance Minister, Mr Kjell-O-lof Feldt, has agreed to reduce the highest marginal rate of central government income tax from 72 per cent to 55 per cent, rather than the 50 per cent which he had originally

SWEDEN'S ruling Social intended for those earning Democrats have modified their over SKr200,000 a year.

The revenue raised from this change in the tax plan of around SKr4bn will go to ease the tax burden on Sweden's 1.7m workers who earn less than SKr125,000 a year about 40 per cent of the labour

Next year, in the first stage of the reform, there will be a cut of 7 per cent in central income tax for those earning over SKr75,000 a year and 2 per cent for those earning less, in a total reduction in the SKr23.5m.

IG Metall builds up strike reserves

By David Goodhart in West Berlin

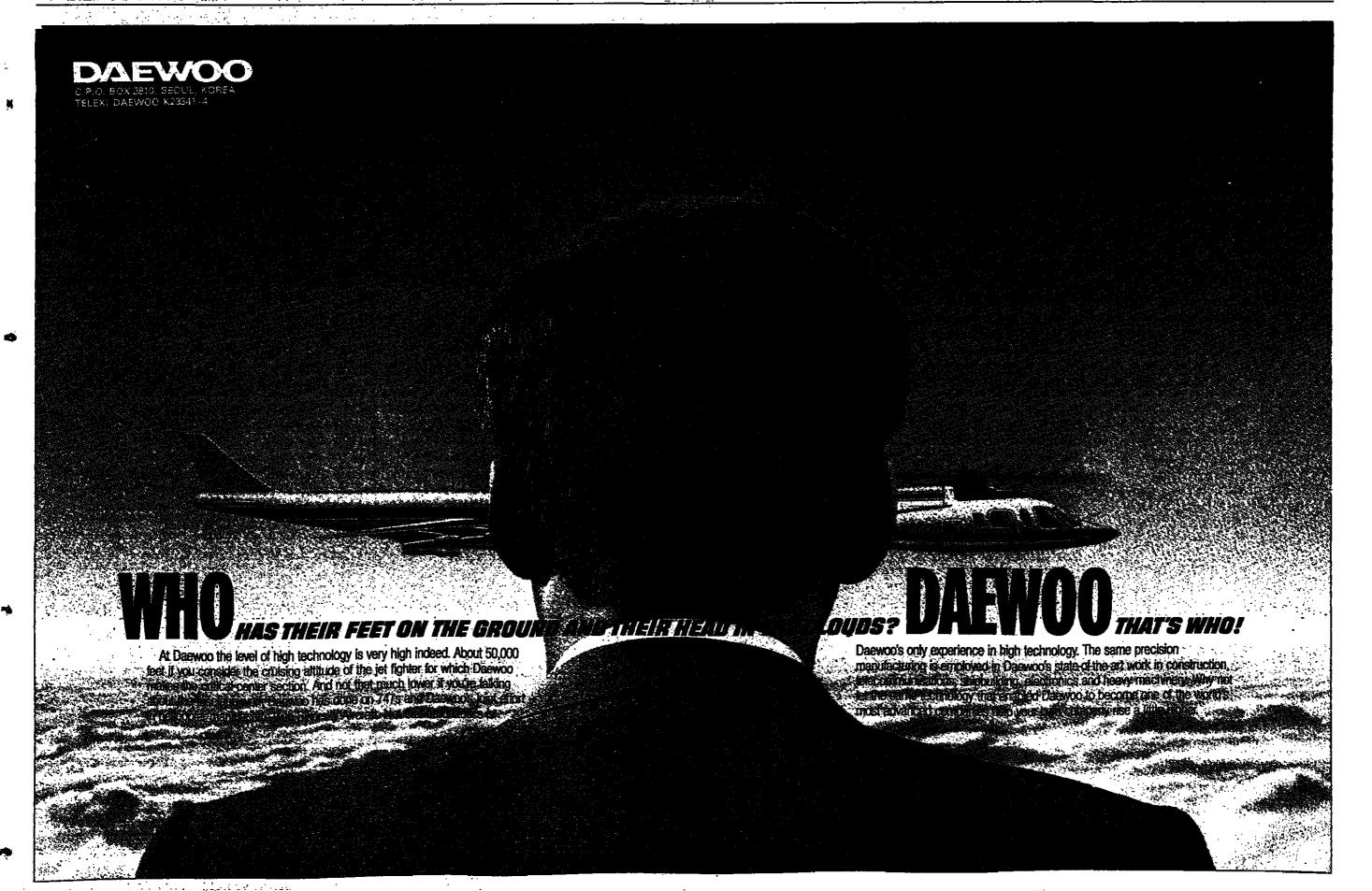
IG METALL, the 2.6m-strong West German engineering union, has built up reserves unofficially put at nearly DM1bn (£340m) to fight a possible strike early next year in the metal industry.

Because of a change in the

labour law, any strike action next year - over pay, reduced working time, and retention of free weekends - will be far more expensive than it was in 1984, when the union paid out DM500m to key groups of striking workers on strike for

which opened yesterday in West Berlin, IG Metall has been sternly warned against pressing for a further cut in its current 37-hour week by Economics Minister Mr Helmut Haussmann and by employers' leader Mr Klaus Murmann.

Mr Franz Steinkühler, IG Metall leader, has accused Mr Haussmann of breaking the spirit of the country's indus-trial relations law, which forbids political interference in negotiations. Although the current three-year contract in the metal industry does not end In the weeks leading up to until next March, talks are the union's annual conference, likely to begin this year.



OVERSEAS NEWS

Bush vetoes easing of abortion funding

By Peter Riddeli

US President George Bush over the weekend fulfilled his pledge to veto legislation passed by Congress that would have eased restrictions on Fed-eral funding of abortions by allowing assistance for poor women in cases of incest and

In his veto message, Mr Bush, who has shifted his position to a tougher anti-abortion stand in recent years, argued that Federal funds should only be used for abortions when the life of the mother would be

Supporters of a relaxation of abortion funding almost certainly do not have the twothirds majority in both Houses needed to overide a veto since the measure only passed the House by 216 votes to 206. The abortion issue is now at

the forefront of political debate in the US since the Supreme Court ruled in early July to give greater discretion to individual states.

However, the anti-abortion forces have suffered a number of setbacks since then.

Earlier this month the House of Representatives voted for the first time in eight years to permit payment for abortions for poor women in cases of rape or incest and in another setback for those who oppose abortion, the Flo-rida state legislature refused

to restrict abortions and to introduces changes to the cur-

rent law. Moreover, anti-abortion Republican candidates have been on the defensive in hitter fights for the governorships of

New Jersey and Virginia. The Democratic leadership in Congress, which originally feared it would lose out over the abortion issue, is now more confident that it may

This is because sizeable between 20 and 40 who swung to the Republicans during the elections of the 1980s do not want tighter restrictions to be imposed on abortions.

Senator George Mitchell, the Democratic Majority leader, said over the weekend that the

veto would "hurt the Republicans, especially with young

people."

The Republicans made opposition to abortion their issue, but now they are on the defensive and groping for a way to modify their position."

House Speaker Tom Foley has acknowledged that the House was unlikely to muster the two-thirds majority vote

meeded to override a veto.

Mr Bush's veto was expected
after efforts to reach a compromise with members of Congress had broken down early in the week.

US signals irritation over Israeli stance

By Peter Riddell. US Editor in Washington

THE US State Department is making public its increasing irritation with Israel's attitude to negotiations over elections by Palestinians in the occupied territories.

After a week of intensive telephone exchanges between Washington and Jerusalem, a senior US official briefed reporters that Mr James Baker, the US Secretary of State, is "not going to pursue this (his five-point plan for an Israeli/Palestinian dialogue on elections) from here to eternity."

The official said that Mr Baker The official said that Mr Baker was giving the problem "100 per cent but there could be a limit to how long you continue." The US position has previously been of patience in face of obstacles, but last week the State Department described the comments of Mr Yitzhak Shamir, the Israeli Prime Minister, as "unbehold!

Prime Minister, as "unheliful and disappointing." US officials feel that Mr US officials feel that Mr Shamir is creating obstacles to the fulfillment of his own election plan and they believe the responsibility, and any blame, should be shifted to him if there is a stalemate.

The hope in Washington is that this will increase measure.

that this will increase pressure for concessions by Mr Shamir, who is due to visit Washington next month. But there is no question of any reduction in the US's \$3bn a year military



James Baker: no leaf unturned

support for Israel.

Ms Margaret Tutwiler, the State Department spokes-woman, said that Mr Baker believed there may be "a possi-bility for progress, but it is cer-tainly not a probability. If the parties in the area do not have the will to overcome their political constraints, we cannot produce progress by our-

produce progress by ourselves."

Mr Baker again talked to the
Israeli and Egyptian foreign
ministers at the end of last
week. A senior official said
that Mr Baker wanted to make
sure he left "no leaf unturned.
But when you get to the point
where you've done 100 per cent
of what you can do, you turn of what you can do, you turn your attention away to other parts of the world."

Honduran minister among air crash dead

By Tim Coone in Managua

A BOEING 727 airliner of the Honduran airline SAHSA, with 132 passengers and grew-aboard, crashed into a moun-tain on Saturday morning as it approached Toncontin airport at the Honduran capital Tegucigalpa. Fifteen survivors have been reported including the

The aircraft was on a regular flight from Managua, the capital of Nicaragua, and was capital of Nicaragua, and was apparently flying an instrument approach to Toncontin through bad weather. Among the victims were Mr Armando Blanco, Honduras' Minister of Labour, and the daughter of the Honduran Minister of Defence as well as seven United Nations officials who had been attending a confer-ence on population in Mana-

gua. Mr José Azcona, the Hou-duran President, said it was believed the crash was caused by mechanical failure. Regular air travellers in

Central America know Toncontin airport as a "white knuckle" destination. Its short runway and location in the middle of mountains makes take-off and landing difficult even for experienced aircrews.

Government costs in tackling earthquake estimated at \$4.4bn

By Peter Riddell

THE cost to the Californian and US Federal governments of dealing with the San Francisco Bay earthquake last Tuesday is now officially estimated at a minimum of \$4.4bn, of which more than \$3bn will come from.

Washington.

As the Bay area prepared for a return to full working today. there was surprise and delight throughout the US over the rescue on Saturday of 57-year-old Mr Buck Helm from his car which had been nearly flat-tened by the collapse of the two-tier I-880/Nimitz freeway in Oakland. Mr Helm's condition

was yesterday critical.
Authorities originally estimated that as many as 250 peo-ple had filed in the earthquake but they now say that figure was much too high.

Lieutenant Governor Leo McCarthy of California said yesterday that government assistance might amount to at least \$4.4bn, with at least three-quarters coming from Federal government and most of the rest from the state government. That excludes provisions by insurance companies sions by insurance companies

and homeowners.
California Governor George Denkmeijan said that some of the money would come from a Sihn reserve for emergencies. He wanted to know full esti-mates of the cost of the damage and what the Federal Govage and what the reduct enument would provide before deciding whether to increase taxes. He did not rule out a special tax increase, which would reverse more than a decade of tight curbs on taxes

and spending in California.

Congress is planning early action this week on legislation to increase the amount of Federal funds available. Democratic Senator Alan Cranston from California said more than \$3bn would have to be provided from the Pederal Emergency Management Agency, the Small Business Administration and the highway fund. He predicted that there would he sufficient votes in Congress to secure a waiver of the Gramm-Rudman deficit reduc-

tion law for this amount. Senator Daniel Moynihan chairman of the Senate subcommittee on transportation and infrastructure, said money would come from the \$12bn surplus on the Federal high-

Californians braced for traffic standstill in San Francisco

HUNDREDS of thousands of HUNDREDS of thousands of Northern California residents must find new ways to get to work today, writes Louise Kehoe in San Francisco.

Transport authorities are predicting huge traffic jams as businesses attempt to resume

normal operations following last week's earthquake.

last week's earthquake.

The collapse of Highway 880 in Oakland and the mid-span failure of San Francisco's Oakland Bay Bridge have created serious problems for those getting to work in San Francisco from Cokland and other cities. from Oakland and other cities

on the East Bay.

Exacerbating the problems, however, several of San Francisco's other main thoroughfares have been closed because

of structural damage.
At the weekend, transport authorities continued to inspect elevated highways and overpasses throughout Northern California. By Saturday evening, it was evident that damage may be far more wide-spread than reported initially. Several more streets and highways were closed, including one of three major routes to San Francisco Airport.

Public transit authorities warned of "gridlock" and urged San Francisco commut-ers to take advantage of additional ferry, train and bus ser-

tional ferry, train and bus services that have been hastily arranged to compensate for the blocked freeways.

Even if used to full capacity, however, public transport can only dent the problem. Some 250,000 vehicles normally cross the Bay Bridge each weekday morning. Only about 10,000 passengers can by carried by the expanded ferry services which now link San Francisco which now link San Francisco to Oakland. Authorities hope to alleviate the problems by

encouraging car pooling and flexible work hours. There is little doubt, however, that traffic difficulties will have a significant economic impact on businesses throughout Northern California for the next few months.

French greet Antarctic talks as step to accord on environment

By lan Davidson in Paris

THE 39 signatories to the Antarctic.

Antarctic Treaty have agreed, after a protracted and across which would tightly restrict alons meeting, to hold a speclai round of negotiations next year to set up a "comprehen-sive protection system" for the

confinent's environment. The agreement, hammered out at midnight on Friday, was greeted by the French Govern-ment as a breakthrough for its argument that Antarctica needs a global protection sys-tem to turn it into a "Natural

"The machine is on the rails and it is coming round", said Mr Brice Lalonde, French Environment Minister, irium-phantly, after naming the US and the UK as France's main adversaries in last week's negotiation.
The French proposal, jointly

sponsored by Australia, was fiercely opposed by a number of other Antarctic Treaty states, led by the US and

Britain:
The US and the UK opposed the proposal for a Natural Reserve on grounds that it would rule out indefinitely any exploration or exploitation of mineral resources.
The British Government

claims that recently negotiated safeguards would satisfactorily protect the Antarctic against environmentally damaging mining. It adds that technology

mining. It adds that technology may one day make mineral exploration in the Antarctic environmentally safe, while the French plan would rule this out for ever.

The decision to hold a Special Consultative Meeting next year, solely devoted to negotiation of a comprehensive protection system, is a significant if partial victory for the French case.

The other member-states have not agreed in advance that the end-product of next year's negotiation will be a Natural Reserve; but they have agreed that the only purpose of the negotiation is the creation of a comprehensive protection system in Antarctica" and they have agreed that all proposals submitted on this subject will

be on next year's agenda.

In return, the French Government has agreed to the holding of a separate round of negotiations next year on a liability convention in the framework of the Wellington Convention on minerals

of minerals in the Antarctic, was negotiated last year. But it is still in a state of suspended animation because France and Australia have concluded that any exploration could be a threat to the Antarctic environment and have withheld their signatures so that the the Convention cannot

come into force.

The agreement to hold parallel negotiation on liability for environmental damage under the Wellington Convention carries the unstated overtone of a concession of principle by France and Australia to the US and the UK, since it seems to imply some continued support for the Convention.

for the Convention.

French spokesmen insist, however, that the two negotiations will not really be parallel, will not be of equal status and may well not take place at the same time and place.

The environmental negotiation they point out will take

The environmental negotia-tion, they point out, will take the form of a Special Consulta-tive Meeting, in formal terms the Antarctic Treaty system's highest decision-making form, whereas liability will merely be examined at "a meeting" in 1990.

France insinuates it will probably stay away from the negotiation on the liability aspects of the Wellington Con-

Despite the ferocity of the antagonism between France and the Anglo-Saxon states at last week's negotiation, the final compromise has a paradoxical compensation for both sides.

During the uncertain period between signature and even-tual ratification, the Wellington Convention included a moratorium on any mineral exploration in Antarctica. In rejecting the Convention, France and Australia took the risk that some countries might take advantage of an arguable legal vacuum to press ahead with mineral exploration

regardless.
Last week's agreement to open a liability negotiation clearly implies that all Antarotic Treaty states intend to stand by their transfer to stand by their moratorium on any mineral exploration in Antarctica for the foreseeable

Argentine rebel dismissed

THE Argentine Army has dismissed rebel leader Lieuten-ant Colonel Aldo Rico who led two uprisings in April 1987 and in January last year, Defence Ministry officials said last Friday. Reuter reports from Bue-DOS Aires

Another lieutenant colonel and three captains who had supported Rico and gone into

hiding were also dismissed. Lt Col Rico, a veteran of the 1982 Falklands war with Britain, led a group of young officers in the first revolt to protest at what they saw as passivity by their commanders while subordinates stood trial for human rights abuses during the "dirty war" of the



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FINANCIAL TIMES MONDAY OCTOBER 23 1989

"Where do I check in?"

"I've left my ticket in the taxi."

"Which gate is my flight?"

"My luggage has gone through and
I need something from it."

"My car's outside on double yellow lines."

"I think that's my plane taking off."

"My canary's escaped."

"Can I get a coffee around here?"

"I can't do my zip up."

"Can I get into New York by helicopter?"

"What time do we get there?"

"Just how wide are the seats?"

"Do they have nappies on board?"

erctic

men

"Where do I get a newspaper?"

"Do they sell Russian vodka in duty free?"

"Where's the Ladies?"

"Where's the Gents?"

"Where have all the trolleys gone?"

"Is the Pink Poodle Club on 48th Street or 49th?"

"Do we get to see where the pilot sits?"

"What happens if it's full?"

"Where can I get an oil filter for a 1965 Hillman Imp in Chicago?"

"Do they take traveller's cheques in duty free?"

"Where's the London desk?"

"What do I do with this?"

"Can I go through to the Departure

Lounge now?"

"Where is the Departure Lounge?"

"They've put the wrong name on my ticket."

"Can I get a bassinet for my baby?"

"I'm looking for some string."

"Does my camera have to be X-rayed?"

"I've just noticed my passport's out of date."

"I need an aspirin."

"Kann ich am J.F.K. Flughafen direkt zum Flug nach Chicago umsteigen?"

"Where's the Ambassador Lounge?"

"Do I need a Visa?"

"Can I take these as hand-luggage?"

"Can I change to a later flight?"

"What do I do now?"

"I have to phone my wife."

"Is there a phone anywhere?"

"Είναι ο Πήτεο 'Αιζντελ-Κάοπεντεο εκεί;"

"Anybody got a pen?"

"What time is it?"

"Is New York ahead or behind?"

"Can I hire a car there, from here?"

"Is it sunny in Los Angeles?"

"Will my hair dryer work in Minnesota?"

"I can't find a porter."

"My aunty's gone missing."

"Will they have any dominoes on board?"

"Are there any seats in non-smoking?"

"What's for dinner in First?"

"What film are they showing?"

"Is there a nice restaurant in Toledo?"

"How do I get into town from JFK?"

"My case is too heavy"

"How far is Philadelphia?"

"Is it on time?"

"Can I change this non-changeable ticket?"

"Can I choose my seat after I get on board?"

"I'd rather sit at the back of the plane."

"Can I order a special meal?"

5

"I can't find my boarding card."

"What star sign is the pilot?"

"I need to send a fax."

"Is there a wheelchair somewhere?"

"Is there a lift?"

"Do I have to be X-rayed?"

"Please, somebody."

"Which way now?"

"My seat's supposed to be reserved."

"Will they wait for me?"

"Can I change my money here?"

"What's going on?"

"How many bags am I allowed?"

"What's the code for Dayton, Ohio?"

"Is it too late to order a kosher meal?"

"What escalator?"

"Can I leave my rented car keys with someone?"

"Maybe someone will change seats with me?"

"Will we all be able to sit together?"

"Can my son sit in the cockpit?"

"Is it too late to change my flight?"

"Is it too early for the bar?"

"Will there be any film stars in First Class?"

"Who won last night's ball game?"

"I didn't hear that."

"Is it are not my wife's ticket here to pick up.¿Qué?"

"How do I make my connection in New York?"

"Help!"

TWA give you someone to buttonhole.

We've been listening to some of the questions that get asked at the airport. (See above.)

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projected to grow at 5 per cent

per annum, these two countries and Luxembourg are

understood to be working on

plans to introduce cabotage in

Benelux next year as a means

of showing it can work Mr Egide Roelants, sconomic adviser to the Belgian Road Haulage Association, observes

that intra-EC transport repre-

sents just 5 per cent of the total EC road haulage business and that cabotage thus promises to open up 95 per cent of the market. He nevertheless believes that the economic

believes that the economic impact should not be exagger ated, that companies would need to set up marketing operations outside their home

territory, and that cross-border co-operation between interna-tionally-minded firms is likely

A spokesman for Britain's

A spokesman for Britain's Road Haulage Association, which last week ran a conference on this and other issues, agrees. "I think that people realise that in view of the constitution of the market it is not."

growth of the market, it is not necessarily the hig evil that is sometimes claimed. Hauliers will have to talk to hauliers to

find solutions. It is a difficult

one to solve but I just hope that an unwelcome scheme

isn't imposed on us at the end of the day."

Algerians in

bid to boost

gas exports

By Francis Ghiles in Paris

ALGERIA'S state oil and gas

monopoly, Sonatrach, is negotiating a contract initially worth about \$600m (5375m) - with a number of

European and United States companies to revamp the gas liquefaction utilities in Arsew, the country's major oil and gas

export base.
Companies such as Bechtel,
Foster Wheeler and Sofragas
are known to be interested in

the Algerian plans to increase the country's gas export capacity.

The hope is that us the many

the hope is that as the many-disputes which have marred Sonatrach's relations with its leading. European and American custometric slace 1979 are settled, the volume of gas it is selling abroad will increase from 36th cubic metric in 1968

to over 30bn cubic metres this

Just under two thirds of this

gas is exported in the form of Liquefied Natural Gas (LNG)

while about 11.5bn cubic metres travel to Italy under the

Straits of Sicily through the TransMed pipeline.

least where gas is concerned, is that of expanding the carecity of the TransMed line, which

could help to most the ever-growing demand for gas in Italy.

In oil exploration, Algeria is seeking to attract foreign investment, denied for a decade because of its restrictive laws regarding joint

Equally important is the need to improve the functioning of existing wells and boost production.

Many wells have been severely damaged in recent years as Sonatrach has been decided some process and formers.

denied spare parts and foreign technical advice because of restrictive official policies.

believe that, with more freedom to operate they could, for example, boost the annual production at the big official

at Hassi Messaoud within two years from 10m to 20m

Western oil companies

Algeria's other priority, at

to be the way shead.

Road haulage single market is still a long way from reality

Discussion of a modest experiment to liberalise transport has run into determined opposition, Tim Dickson reports

ever expressed in a single word. But if you ask those trying to achieve a single market in road transport how they want to get there, a mere three-syllable answer will suf-

"Cabotage" - the practice of allowing non-residents to offer road haulage or indeed other transport services within a member-state - is seen by architects of the 1992 programme as a hig test of the European Community's real political and economic resolve. Road haulage cabotage is intended to break down barriers that restrict national markets to domestic carriers. Enthusiasts believe it will fill at least some of those lorries forced to return home empty after cross-border journeys - and bring tangible financial benefits to road transport users in lower tariffs.

Others say it will help speed rationalisation of an industry suffering in many member-states from over-capacity and already under pressure from investments in competitive new air and rail links.

Last week's meeting of EC transport ministers in Luxem-bourg demonstrated that road haulage cabotage is one area where the single market dream is still a long way from reality. Discussion of a relatively mod-

Since carncorders must

be compact, conventional units

normally use a cylinder with a

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cylinder, parts had to be reduced

reduction demanded true inter-

Hitachi's hybrid IC design and

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specific target.

manufacturing capabilities were

EW ideas in Brussels are into determined opposition ever expressed in a sin-Germany, and earlier expectations of significant progress on road haulage cabotage by the end of this year are now being

> The arguments of ministers who fear their industries will be swamped by fleets of low-cost operators seem to outweigh those who maintain that greater efficiency and worthwhile consumer gains are the

> more important prize.
>
> The word "cabotage" appears to have no known connection with the Italian explorer John Cabot - appro-priate though that might have been. One must be content with the definition from the French word caboter (to sail near the coast). Normally applied to coastal navigation within the borders of one country, the word has come to describe non-resident operations in all forms of

> The present Community-wide ban on cabotage is only one distortion of the single market in road transport. Com-petition is affected by different national regulations on capacity and access to the industry, and in some cases by tariff control, while a system of licences requires hauliers to apply for permits to move goods between

by the EC Transport Council in June last year, the Community agreed to increase the number of EC quotas by 40 per cent in 1988 and 1989, while commit-ting itself to scrapping the whole complex system of bilateral country-to-country and EC licences by January 1, 1993. This means there will be no

restrictions on lorries carrying loads from, say, London to Frankfurt (or vice versa). But as things stand, these same British and German hauliers will be prevented from collect-ing and delivering goods in France, or anywhere else, to make the return journey more lucrative (a freedom known in the jargon as "consecutive"

cabotage).

A study by Ernst and Whinney estimated the cost of empty moves at roughly Ecul.2bn (£830m), of which some 20 per cent may be related to regulatory restric-tions. A study by DRI (Europe) in 1986 suggested the potential market for consecutive cabo-tage could be about 1.5 per cent of present domestic traffic.

Successive efforts to open up these opportunities have con sistently been frustrated, despite clear political and Court of Justice deadlines. Article 75 of the Treaty of Rome calls for "the conditions under which non-resident cardiars and court of the conditions under which non-resident cardiars." riers may operate transport services within a member-



state" to be laid down "during the transitional period" (that

The European Court, in a ruling against the Council of Ministers in 1985, urged member-states to get on with the job, while the internal market white paper of the same year. white paper of the same year set a target for road haulage cabotage of 1988 "at the latest". The problem, as the Ernst and Whinney study observes, is that large countries such France and Germany "with tightly regulated domestic haulage markets and high domestic rates" see themselves as particularly vulnerable. At the same time, "while operators in Northern Europe are worrled about the influx of worried about the influx of low-cost operators from southern Europe, the southern European operators are con-cerned about the inroads the highly efficient northern haul-iers will make". Clearly, the consultants concluded, "this is

a complex and highly emotive

Aside from a few attempts to promote consecutive cabotage by the Benelux countries, the first real sign of political movement came in the first half of 1989 when the Spanish Presi-dency of the EC came farward with a limited but (most observers felt) worthwhile experimental scheme.

The idea was for an initial quota of just 5,000 cabotage licences, to be divided among the member states and allocated to individual companies. Each licence would give the holder the freedom to operate anywhere in the Community for up to three months. The more liberal-minded countries such as Britain, the Nether-lands, Belgium and Denmark were encouraged by the rela-tively relaxed conditions, but France and Germany expressed reservations. Born was anxious to apply its domestic rules. In the end, the package was not pushed to the vote.

Developments since the summer have centred on French

mer have centred on French efforts to water down the Spanish plan, notably in a proposed compromise assigning each cabotage quota to the member-state in which it would be used, and limiting its duration

to one month.
France, which holds the EC Presidency till the end of the year, is concerned that its

domestic market is the most vulnerable to EC liberalisation. But critics argue that its alternative plan - involving in effect 132 separate quota systems, 11 for each membercountry - can be seen as a step back rather than forward on the road to a single market.

That message was forcefully conveyed to Mr Michel Delebarre, the French Transport Minister, in preliminary discussions at a meeting of Community ambassadors earlier in the month and at last week's EC Transport Council in Luxembourg, where Mr Cecil Parkinson, the UK Transport Secretary, led the assault. Some EC officials and diplomats are even accusing France of betraying the office of the Presidency. The country holding that post is expected, they contrad to seek compromises in tend, to seek compromises in the Community interest rather than push a national point of

Whatever happens now - and a chastened Paris has at least promised to put part of the Spanish proposals back on the table — the problem for the liberals is to overcome conser-vative countries fear of the

The Dutch and the Belgians point out, for example, that they liberalised their interna-tional road haulage markets in the early 1960s without any

EC and Efta aim for 'real talks' negative effects. Convinced next year that everyone can benefit in a European road haulage market

By David Buchan in

OFFICIALS from the European Commission and the six members of the European Free Trade Association (Effa) have ended nearly six months talks by identifying key questions for possible real negotiation next year.

The political decision whether or not to launch into negotiations, involving sensitive sovereignty issues as well as commercial matters, will be taken when ministers of the 12 EC states and the six fifta countries meet on December

Officials have reached cer-tain "common conclusions" in their talks, simed at seeing whether the 18 countries could, in the words of Mr Jacques, Delors, Commission president, achieve a more structured

achieve a more structured partnership with common decision-making and administrative bodies". But they refused to divulge the exact content of these conclusions ahead of a special lifta ministers' meeting in Geneva this Friday and debate within the full Brussels Commission. Both sides said it had been

Both sides said it had been harder to find common lan-guage on the question of future institutional links between the institutional links between the two organisations than on the aims of assuring free circulation of goods, services, capital and people within a "European Economic Space" combining the EC and EF1a.

An Efta official speke of the common view that there should be common administra-

should be common administrative, even surveillance, bodies which would be able to receive complaints, and in the final snalysis, common judicial arrangements". One option discussed, at

least on the Esta side, is the Community's Luxembourg court sitting alongside six fifta judges. This presupposes prior negotiations of common rules for such a joint judicial bench

to interpret.

Efta countries have ruled out adoption of the Community's common agricultural policy. though the six countries might negotiate, either jointly or sev-erally, improvements in farm trade with the EC, the official

The Efta countries make up the BC's largest trading pari-ner, though Austria has applied for full EC membership. But for the moment it is at one with other Effa states — Switzerland, Sweden, Norway, Finland and Iceland — in seek ing a new deal with Brussels.

SHIPPING REPORT Tanker rates set to peak

CHARTER rates for large oil tankers operating from the Middle East have risen to their highest level for several years, with prices being driven up by heavy demand from the Far

heavy demand from the Ear East and Western oil compa-nies, Terry Dodsworth reports. Brokers say tariffs rose steadily last week, with a very large crude carrier being fixed at World Scale 75.
Galbraiths, the ship brokers, said scarcely any capacity is available from the Middle East for the rest of this month, with demand strong cont.

demand strong for early November. Galbraiths says rates have

Galbraiths says rates have probably almost peaked, partly because there should be more available tonnage in the second half of November.

By that time, refinery stocks should also have been largely replenished. But the industry expects prices to remain expects prices to remain around their present levels

WORLD ECONOMIC INDICATORS

until December.

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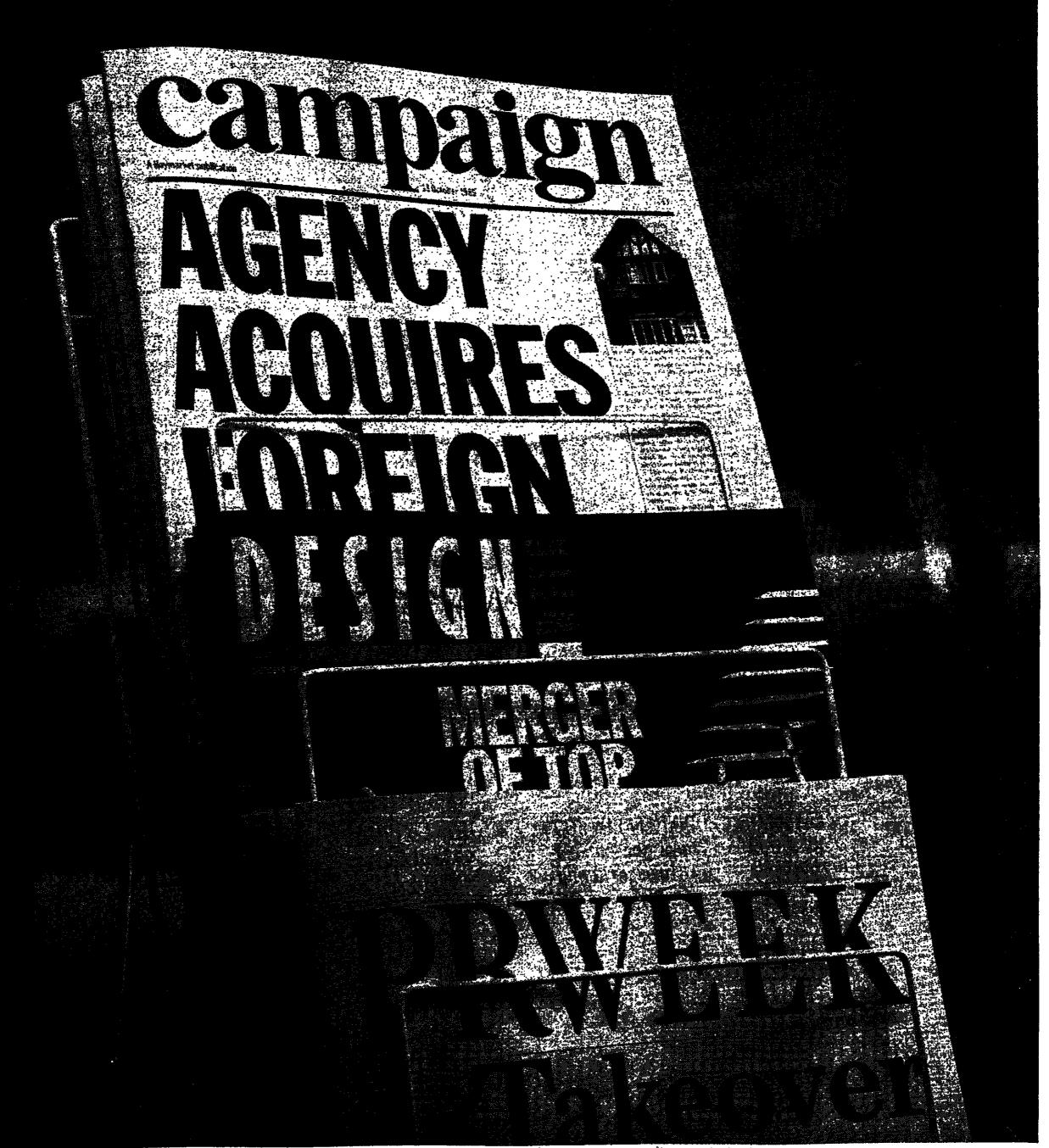
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UK NEWS

Brussels consultation plan attacked

By John Gapper, Labour Editor

A DETAILED attack on European Commission proposals for statutory worker consultation was launched yesterday by the Government following a visit to Britain by Ms Vasso Papandreon, EC Social Affairs Commissioner.

Mr Norman Fowler, the Employment Secretary, said proposals sought by the Commission in Brussels for worker participation models within a European Company Statute would damage the "Aexibility and diversity" that characterised employee involvement in

Mr Fowler, however, emphasised the Government's support for voluntary worker par-

CAMBRIDGE University is planning to lengthen under-graduate engineering courses to four years because it is con-cerned by the refusal of conti-nental European employers to

recognise the traditional three-year British engineering

degree.
Four-year engineering degrees will also allow Cambridge to increase the amount of time devoted to areas such

as computing and manage-ment, which is likely to be wel-comed by employers of gradu-

Professor John Carroll, who

has drawn up the proposal,

said that a three-year engineer

ing qualification was not recognised by some employers in

continental Europe where five-

and six-year engineering

degrees are more common. Employers, however, may be

ticipation.

Ma Papandreou stressed last

By David Thomas, Education Correspondent

week that existing practice in European Community countries could preclude the need for legislation to enforce the Social Charter.

Mr Fowler said encouraging employee involvement remained a priority. Tax reliefs to stimulate financial participation such as employee share ownership and profit-realted pay had been in included in nine out of the last 10 budgets He was launching a booklet detailing employee participation at 26 British companies which includes an extended rebuttal of the need for statutory worker participation mod-els such as the West German

system of co-determination, The booklet argues that com-pulsion along the lines of the

Cambridge lengthens courses

concerned about the impact of Cambridge's proposal on their student sponsorship costs and

also on the overall numbers of

graduate engineers, who are already in very short supply.

its annual intake of engineer

ing students from 350 to 270,

because it does not foresee

extra resources to fund the transition to the four-year

There has been a steady trickle of universities convert-

ing to four-year engineering

The Engineering Council has

argued that a four-year course would be appropriate for a

minority of engineering stu-dents as the university is con-

cerned about the declining

standards of mathematics in

The proposed move by Cam-

Cambridge is planning to cut

European Company Statute or the Verdeling directive on worker consultation is not conducive to the development of wholehearted employee partici-

It lists a series of disadvantages to statutory enforcement of employee involvement, including:

• Legislation would divert

companies' energies from "irrelevant new statutory requirements" instead of developing practices which suit • Compulsory co-determina-

tion could have a damaging effect on management decision-making. Workers' representatives would be able to block vital changes and destroy jobs.

bridge, which has one of the largest and most prestigious engineering departments in the country, is likely to reopen interest in the issue.

Cambridge's engineering department plans to present a proposal to the university

authorities for a four-year

course starting in 1992. Prof Carroll also said that

while the quality of stratents was still very high, many of them particularly from state

schools no longer study maths to a sufficient level to be able to complete satisfactorily an

engineering degree in three

Under the plan, some Cambridge students could still leave after studying engineer-

ing for three years, but the

great majority would stay on for four, possibly leading to the awarding of a M. Eng. degree.

 Important decisions could be held up and sometimes overturned, leading managers and board members to choose not the best course, but "the line of least resistance

• Consultation machinery could push direct communication between managers and workers into second place, and middle managers and supervi-sors might be less well-in-

Among the practices cited in the booklet – called People and Companies – are team briefing at the French car manufacturer Peugeot Talbot, an employee share ownership plan at Roadchef and positsharing and share ownership at the UK food retailer J Sains

Mixed vote expected in engineering strike ballot

By Michael Smith, Labour Staff

MEMBERS OF the largest engineering union at the Chal-tenham plant of Smiths knows tries have voted in favour of striking for a reduced working week, Mr Pat Rawlings, the

week, Mr Pat Hawlings, the chairman of the factury's shop stewards said yesterday.

Mr Rawlings, however, said he thought in spite of the "yes" vote among AEI members, majorities in some of the other unions at the site were covered to the state. against striking.

The vote results at Smiths and six other engineering plants throughout Britain will be announced by the Configuration of Shipbuilding and Engineering Unions (ISBN) this afternoor

this afternoon.

It is likely that a mirror pertern will be the outcome in
most of the seven, with support strongest among manual
workers.

workers.
Union leaders expect the best results at British Acrospace's plants at Passau and Chester and at Rule-Mayre's

Chester and at Russessor.

factory in Glasgow.

They are lear confident.

about the BAe plant in Simple ton-on-Thames and the Rolls-Royce factory in Coventry. Support could be even thinner at Smiths Chestenburg plant and at an HEL-Parsons. actory on Tyne NEI-Parsons management

s waged a particularly strong campaign against striking, through direct appeals to the workforce and advertise-ments in the local press.

The workforce is concerned. about striking so soon after

being taken over by Rolls-Royce earlier this year and, in an area of high unem-ployment, the company's mea-sage about the possibilities of jobs being threatened by a strike has hit home. The reduction of the work-ing week is the per project of Mr BiH Jordan, president of the AEU engineering union.

For the last six months he and other union leaders have been touring the country to drum up support for an issue which, at least at the start, had only lukewarm support

in Brief **Ambulance** men attack plan to use police yans

AMBULANCE management is being accused of "putting lives at risk" as London crews pre-pare to begin a work to rule

from temorities.

The health unions are grotesting at plans to turn points
vans into emergency ambulances as they step up ladus-trial action in a pay dispute.

Travel staff prize THOMAS Cook the travel agency, is to award a gift to each member of staff who makes a suggestion for improv-ing business efficiency even if the idea is not practical, under a relaunched staff suggestion

a relational start suggesterne.
The company has this month revised its scheme, founded in the 1940s, in order to raise the participation rate from the previous level of about 600 suggestions a year among its 6,800 staff to 1,300 a year.

Company pay TWO thirds of UK companies have raised basic pay and more than a third have introduced performance-related pay schemes in the past two years in order to tackle growing difficulties in recruiting and retaining staff, according to a survey.

Royal programme THE Prince of Wales is to write and present a TV documentary on the environment, it will be acreened in 1990 as part of a One World project in which European broadcasting stations collaborate on pro-grammes about global prob-

Fire bombs defused THREE fire bombs were defused by London police yesterday after a tip-off from a man claiming to represent an extreme Welsh nationalist

Air control offer

AIR traffic controllers yester day offered to work up to 15 extra days each over the next year to relieve difficulties with the service because of staff shortages.

THE THAILAND INTERNATIONAL FUND INTERNATIONAL DEPOSITARY

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ment, Corporate IDR section. MORGAN, GUARANTY TRUST COMPANY OF NEW YORK Brussels Office 35, Avenue des Arts

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THE FT CITY SEMINAR

UK NEWS

Policy of high interest rates hurts a Tory heartland

Christian Tyler finds that the rising cost of borrowing has hit many residents of Lewes in Sussex

London, 31 October, 1 & 2 November, 1989 The FT City Seminar is an exceptional training programme

FINANCIAL TIMES CONFERENCES

with speakers of great authority who describe and discuss the major markets and players involved in the complex life of the City of London. An Interesting feature of the next Seminar is an examination of the changing regulatory approach of the SIB a year after David Walker became its Chairman. The Single European Market and the directives from Brussels that are required to put it in place add major new required to put it in place add major new required to put it in place and these threather with new regulatory challenges and these, together with discussions of solutions, will feature also.

Among the new speakers this Autumn are Antony Beevor of the Takeover Panel, John Footman of the Bank of England, Roger Brooke of Candover, Bryan Kellett of Lloyds, Paul Smee of the Securities Association, Nicholas Jones of Lazards, Tadashi Natori of IBJ Bank and Michael Fuller of Midland Bank. There will be particular interest in the mergers and acquisitions part of the programme and in the strategy of a major Japanese player in London with a Tokyo institution represented in the series for the first

Michael Fowle, Keith Woodley, David Suratgar, Stanley Clinton Davis, Christopher Johnson, Herschel Post, Francesca Edwards, Peter Tudball, Peter Wildblood, David Malcolm, Richard Kilsby return to the platform and the Seminar Chairman, Marc Lee, Conference Adviser to the Financial Times, will as always, make sure that the participants have constant opportunities to ask questions on the issues that concern them,

WORLD SHIPPING IN THE 90s Amsterdam, 14 & 15 November, 1989

The FT proposes to stage a major conference to coincide with the Europort 89 Exhibition. After the difficulties of the past few years, the hopes and signs are for a recovery in the world shipping industry. The aim of this conference is to examine current trends and look at the industry's prospects and opportunities for the long term. Speakers taking part include: Henk Rootliep, Royal Nedlioyd Group; Hans Jakob Kruse, Hapag-Lloyd; Erik Toenseth, Kvaemer Industrier; Jeremy Smith, Liberian Shipowners Council; Ernest Fong, Marine Navigation Co and Hiroshi Takahashi, NYK Line.

WORLD ELECTRICITY London, 16 & 17 November, 1989

The FT World Electricity conference is an important annual forum for discussion and assessment of the economic, financial and political issues facing the power industry. This year the agenda emphasises the role of the utilities in a public policy climate that is increasingly hostile to monopolies and favourable to competition. The conference will feature a survey of the prospects for some of the most important electricity systems and will include debate about privatisation in Britain. Among those taking part are: Robert Malpas, Chairman Designate of PowerGen; Peter Bradford, Chairman, New York State Public Services Commission; Rémy Carle, Directeur Général Adjoint, Electricité de France; Togo Miwa, General Manager of the Tokyo Electric Power Company and Dr Dirk Kallmeyer, Director, Rheinisch-Westfälisches Elektrizitätswerk AG.

All enquiries should be addressed to: Financial Times Conference Organisation 126 Jermyn Street, London SW1Y 4UJ Tel: 01-925 2323 (24-hour answering service) Telex: 27347 FT CONF G Fax: 01-925 2125 BETWEEN the photographs of houses for sale, plastered all over the estate agents' win-dows, pallid young clerks could be seen lounging at empty desks. It was the only sign in the capital of Tory Sussex that anything was wrong with the British economy. The ancient market town of

Lewes is just over an hour by train from the metropolis but it is light years away from the feverish world of the Stock Exchange and money markets. Its inhabitants remain unmoved by exotic controver-sies about interest rate man-agement or the timing of Britain's EMS membership. The Chancellor's speech at the Mansion House before the weekend left them less than agog. They were more interested in the site of the new tip,

the route of the by-pass or the news from California. Nevertheless, many Lewes-ians are being hurt by high lending rates — a few quite severely. They may not like it, but they will put up with it. Besides, for every young cou-ple in an £80,000 terraced house struggling on the interest-rate escalator, there is a retired couple planning, on their swelling deposit account, a holiday to the Far East.

So, unless things get very much worse the Conservative Party can go on pulling the lever that has returned a Tory MP to Westminster for as long as anyone can remember. As anyone can remember. As Mr Guy Reaks, leather indus-try consultant and a vice-chair-man of the constituency associ-ation, confessed: "The trouble with the Conservatives in Leaves is they're not interested." Lewes is they're not interested

Lewes High Street is the sort of place to go if you want designer tea-cosies, hand-thrown pots, ruched curtains, wicker furniture and first editions. However, the town is socially more mixed than its castellated charm and Home

Counties gentility suggest.
The local council is not Conservative-controlled but has a Liberal Democrat majority. The town was often Labour before it was merged into the district. Today there is a growing fringe of bearded academics from Sussex University and Brighton Polytechnic. The really rich mainly live in the villages round about. As a result the effect of the interest



Estate agent Anne Wycherley: so many properties there is not room for them all in the window

spending is very mixed. A gallery owner said that antiques were selling slowly but modern paintings, seen as a good investment, continued to sell well. The head of a jew-ellery company beside the River Ouse said he had not weather might be partly to detected any change. The independent travel agent told the same story but wondered if things would change next year.

rate soueeze on consumer

One of the antiquarian booksellers, Mr Andrew Cumming, said he was more worried by exchange rates hurting his foreign customers than by UK interest rates. Besides, he had cleared his overdraft years ago as a matter of deliberate pol-

On the other hand, Ms Belinda Burton, who runs a mid-price fashion boutique, said she was feeling the pinch for the first time ever. Her sales had been markedly down over the past few weeks - although unseasonably warm

Earlier this year she took out a large business overdraft and her payments were now "absolutely ridiculous." She said: "I am worried about spending money on books and other things I don't actually need. I imagine November could be better, Christmas will be the last fling and January, February and March could be really dire. We shall survive,

but I think a lot of people will Mr Peter Bailey, one of the town's bigger entrepreneurs, is forecasting worse than that: a full-blown recession. He said the base rate increase this month to 15 per cent had been the last straw and had had an instant effect on his customers' spending. He added: "I think the Conservative Government are going to do themselves a lot of damage."

Mr Bailey is chairman of the group that owns ClothKits, a manufacturer of trendy clothes for women and children, popular with middle-class mothers and known well outside Lewes. His customers are the sort of people who have hig Pengeot and Volvo cars, big mortgages and send their children to private schools.

"These are the people who have been hit the hardest," he said, "but I think the economy generally is going to suffer quite heavily and there will be an awful lot of people caught with their trousers all the way

It is the invisible inessentials

that take the strain first, according to Mr Ted York, who owns the High Street brokers Berkeley Alexander. He said that more insurance premium cheques than usual had been bouncing in recent weeks and business had gone "suddenly very quiet." He thought people were delaying or failing to renew house contents insur-ance; some would be tempted to trade their comprehensive car insurance down to third-party cover. Life insurance might be the next thing to go. He has stopped advertising home income plans to the elderly. "When we spelt out what it means, people just didn't want to do it the roll-up of interest rates is frighten-ing." At times like the present, he said, people would do better with old-fangled instruments such as annuities.

10 mortgages a month; at present he is doing three. That is no surprise; the house market has been dead for months. However, it is odd that the local building society reports. no rise in payment arrears. Society said that problem arrears - that is accounts three months or more overdue had increased by only a fraction of 1 per cent in the year to

According to Mr Walter Eveling, a senior manager of the society, the mortgage lender is not the first but the last person to know of his customer's financial problems. It seems that people will face anything rather than default on their home loan. It remains to be seen what happens when the society's 13.65 per cent mort-gage rate goes up at the end of this month.

Local estate agents have slashed tens of thousands of pounds off the prices of houses but the market is at a crawl. The only houses changing hands seem to be those belong-ing to people whose jobs have

forced them to move, who have taken on bridging loans, or who have died.

Miss Anne Wycherley, sitting in the beamed and panelled office of her family's oldestablished estate agency, cheerfully pulled out a list of properties for sale. She said:

There are six sides of paper here. A year ago it was only one. We have got so many properties I can't get them all

in the window - and we've got the biggest window in Lewes." The office of the Halifax Building Society has seen its turnover of property transac-tions drop 30 per cent and prices by 10-20 per cent. The manager said it would be the middle of 1991 before prices started to rise again. Another of the dozen estate agencies along the High Street, the Abbey National's "Cornerstone" closed suddenly in the summer. Everyone is waiting

In a loft of the former Star brewery just off the High Street, Mr Michael Cooper is restoring pictures on an old easel. He is a partner in a ven-ture that converted the brewery into 20 arts and crafts "units" and turned its £170,000 overdraft into a business development loan a few months ago.
We got it at a fixed rate of 15.5
per cent because I suspected. that things would go up," Mr Cooper said. "I thought it best to get into a bolthole and pull the hatches down."

There are borrowers - more numerous than many think who are quite oblivious to interest rates. Mr Peter Hall, a winemaker, grows six acres of Seyval Blanc grapes at Breaky Bottom farm, a magical place hidden in a fold of the downs. His must be the most precarious business in England.

However, last week, to the bellow of symphonic music in the old stone barn, he was bringing in a bumper harvest of the crop that has kept him barely affoat for six years. He said that this year he would beat his 1983 record of 20,000

Mr Hall loves wine and winemaking. He is not very excited by money. As he said: 'I'm not interested in getting the last penny. I'm not even very interested in the first. I don't know what the current base rate is. What I do know is there's bugger all I can do about it."

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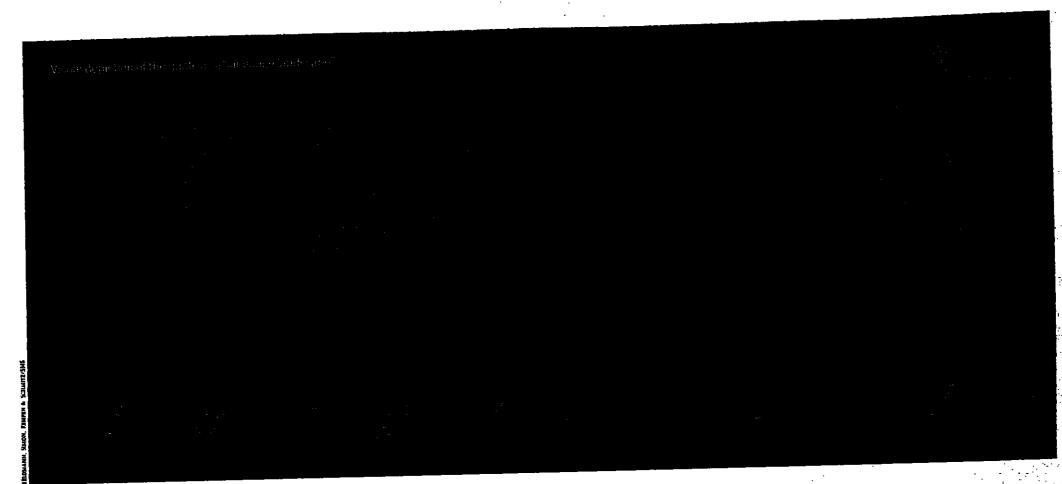


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Mark Hopkins



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UK NEWS

Abortion policy may be forced on Government

By Raiph Atkins

A UNIQUE constitutional dilemma could force the Government towards an official policy on abortion in the next arliamentary session.

A Government-sponsored hill

on embryo research, expected to be announced at the state opening of Parliament on November 21, is almost certain to be used by MPs as a vehicle for re-opening the abortion

Such a move would leave the Government having to decide on procedure for debating the subject – and thereby giving ministers an unprecedented role in influencing any legisla-

Many ministers, including Mrs Margaret Thatcher, are in favour of reducing the maximum period of pregnancy dur-ing which an abortion can be carried out from 28 weeks to 24

There is also a substantial lobby among MPs for a reduction to 18 weeks. . Officials yesterday denied past, abortion changes have been introduced in private members bills with MPs voting according to their conscience rather than following a party

MPs will be allowed a free vote on any proposed changes attached to the expected bill, which will be based on a report by Dame Mary Warnock into embryo research. Mr David Mellor, the bealth minister, said: "It is certainly not a question of the Govern-

ment taking any formal view and trying to whip people in behind that view." However, government business managers will have a strong influence, in conjunc-

tion with the other parties, about the amendments on which MPs are able to vote. Ad-hoc meetings between health and legal ministers are believed to have already taken place but no formal decision has been taken.

The Government may draft its own amendment for debate that the Government would set or seize on one introduced by a out a specific policy. In the backbencher.

efficiency investigation

By David Thomas, Education Correspondent

have joined forces in appoint-

The initiative, the first of its kind in UK higher education, reflects the pressure on universities to maximise their resources in the face of budget squeezing from the Govern-

Birmingham, Leicester, Loughborough and Warwick was confident they would more universities have engaged the PA Consulting Group to carry efficiency gains.

By Michael Thompson-Noe

PT HAS been a week of shakes, quakes,

portents and omens — a good week, in short, for pagan fundamentalists such as Mr Daniel Pallant, the Weekend FT's

as Mr Daniel Pallant, the weekens r1 s financial astrologer, who predicted with breathtaking aplomb this autumn's upheavals in the markets. Mr Pallant is no Johany-come-lately. Last December, writing in the Weekend

Last December, writing in the Weekend FT, he argued that the outlook for UK

equity prices in 1989 was "very bear-

slide being August 25 and September 13. As it was foretold, so it came to pass: the UK market peaking on Sep-tember 8 and starting to decline from

From here on in, says Mr Pallant, things will get stickier and stickier, with the UK's FT-SE 100 index whoseh-

ing to below 1,700 and heading towards

such as residences, libraries, maintenance and catering. Each year for the next three years, PA will conduct a joint study of one area across all four universities, as well as a

Hattersley assurance on credit controls

By Ralph Atkins

MR Roy Hattersley, Lahour's deputy leader, yesterday moved to clear confusion about the party's policy on credit controls.

He said a Labour govern ment would not introduce reg-ulations that would penalise families moving to large houses. However, he hinted that the party would favour greater control of bank depos-its in an effort to allow lower

interest rates. His remarks clashed with claims by Mr Bryan Gould Labour's trade and industry spokesman, that Lebour would seek to rein back inflationary credit growth with strict controls on new mortgages. The proposed rules aimed to hit home-buyers trading up but first-time buyers would have

special conditions.

Mr Hattersley, speaking on
London Weekend Television, said that Mr Gould had been misinterpreted. There were sig-nificant problems from mort-gage lending leaking into other areas of consumption, such as cars, but technical difficulties

in introducing restrictions.

He said: "Both parties have said that is a problem, neither has got a solution for how to deal with it. . . There is no way in which we are going to penalise a family which wishes to buy a larger house."

Mr Hattersley's comments, which appeared designed to soothe divisions within the party, came at the end of a week in which Labour has strived to boost its economic credentials both in the UK and in Europe. An Observer/Harris opinion poll published at the weekend put Labour 10 points ahead of the Conservatives.

Mr Hattersley said mortgages were only part of the credit market. He suggested a wider control of bank deposits, as in France, would mean lower interest rates than other-

LAW SOCIETY ANNUAL CONFERENCE Institutions accused over estate agencies

FINANCIAL INSTITUTIONS involved in estate agencies were accused at the weekend of having lost sight of their obligations to customers.

obligations to customers.

It has happened on a significant scale, said Mr David Ward, president of the Law Society, in his closing speech to the society's conference in Harrogate on Saturday.

The message from all over the country was that the institutions carrying out extent tutions carrying out estate agency work had been doing things they should not have

been doing.

He said: "It may be that employees have not been observing the rules of their own institutions, but it has been a scandal in some places, the extent to which the interests of the vendor for whom they have been supposed to be acting have been ignored."

His main hesitation about the Government's proposals for opening up the conveyancing field to financial institutions was the idea that a solicitor employed by an institution

SOLICITORS should stop getting worked up about the prospect of multi-disciplinary

partnerships between members of different professions, Sir

Mark Weinberg, chairman of Allied Dunbar Assurance and deputy chairman of the Securi-

les and Investment Board, told

He said it was difficult for an outsider, such as himself, to

see why the subject stirred up

so much emotion among solici-tors. "To this outsider it seems

that it should be for the mar-

ket to decide whether there is

a demand for such practices."

If there were a demand it might or might not have impli-

cations for the structure of

existing practices. "But it must be advantageous to individual

solicitors that there are addi-

tional choices open to him as

to the form in which he prac-



scandal in some places' hility to his employer and his

Mr Ward said: "I know very well that employed lawyers in commerce and industry, civil service and local government have shown a great deal of independence in the way they have conducted their professional duties. But they have a single client, they are not faced

Market 'must dictate practices'

Sir Mark also urged solici-tors to adapt positively to the breaking down of institutional

People no longer accepted

that to get a particular service they had to go to the particular

type of institution or firm established to provide just that

Increasingly they would go to whatever outlet would pro-vide that service most conve-

niently to their trust and satis-

embrace that fact positively

rather than accepting it only

in the particular respects that

suit the interests of your pro-fession as it is presently struc-

However, that did not mean that because doors might

open for solicitors to provide a

wide range of services it would

be sensible for them to

The important thing was to

barriers.

faction.

service, he said.

with this particular conflict. I don't think the Government's proposals overcome it and that is a reason why they should look at it very carefully."

The Society's hesitation about the conveyancing proposals did not arise from fears of overall job losses for solicitors and their staff, Mr Ward said. He was sure that there would be many attractive posts available in conveyancing departments and that a lot of solicitors would be far better off working for those depart-

Also, he said, it would be a very difficult and divisive for the profession to get to grips with tendering for franchises when financial institutions wished to offer conveyancing without full-time departments.

Mr Ward said that, while solicitors should try to be less solicitors should try to be less dependent on conveyancing, it had to be recognised that it was because of their noncontentious work - conveyancing and probate - that they were able to offer a net-

attempt to do so. They should

concentrate on their core busi-

brightest feature for a solicitor

was increasingly to be

regarded as a client's broad adviser — the person who could see the client and their

financial and business affairs

as a whole and advise them

accordingly.

Mr Jock Worsley, chairman
of The Financial Training

Company and past president of the Institute of Chartered

Accountants in England and

Wales, said he hoped that the Law Society would not indefi-nitely bar solicitors from being

in partnership with accoun-

He added: "It would be a

very considerable blow to our

members who want to be in a

position to offer comprehensive

Sir Mark suggested that the

REPORTS BY RAYMOND HUGHES

He had no doubt that solicitors would be able to compete with the institutions — if there were fair competition. He said: "I think their prices, once they have got into the market, will be higher than ours — and one of the things we have achieved is a very efficient system for exchange of contracts and transmission of completion moneys, billions of pounds in chains up and down the coun-

The vital thing about that system was that it was based on trust between members of the same profession.

In a final rallying call to his members, Mr Ward said that he was optimistic about the conveyancing issue although he could still see storm clouds ahead. "I still think that the majority of conveyancing mat-ters will stay with solicitors because of the service they offer and because if they are properly costed we can do them more chesn's then the them more cheaply than the institutions."

Court plan for solicitors 'misguided'

A LEADING barrister has attacked a suggestion by Lord Donaldson, the Master of the Rolls, that there should be a rule that solicitors who have prepared cases should not be allowed to argue them in the High Court.

The suggestion - seen as perpetuating barristers' mono-ploy of much advocacy work in the higher courts - was misguided, Sir William Goodhart, QC, told the conference.

"It seems to be based on the proposition that the more you know about a case the less suitable you are to present

The decision whether to bring in a separate lawyer as advocate should not be a matter for rules but should be left to the judgment of those handling the case, Sir William

Winterthur plans £35m insurance investment

By Patrick Cockburn

THE Swiss insurance company Winterthur is to invest £35m in its subsidiary Churchill Insurance, the UK motor insurance company which started trading in June.

Winterthur, the eighth largest insurance company in Europe, which already insures 2m motorists on the Continent, says it aims to make Churchill the leading private car insurance company in the UK in the

Churchill is a direct response writer of motor insurance which says it can undercut traditional motor insur-ance costs by 5 to 10 per cent. New direct writers of motor insurance are offering low prices to gain market share so

putting pressure on longer established insurers. Mr Martin Long, managing director of Churchill, says that by heavy investment in com-puters and by not using mid-dlemen the acquisition and renewal of new business will absorb only 15 per cent of pre-mium income or half the expenses of traditional insur-

Company formed to invest in Hungary

JOHN GOVETT, the London fund management company, is forming a company to invest in Hungarian equities and related securities. The company, to be known as the Hungarian Investment Company, expects to attract at least \$50m of insti-tutional funds, and will seek a listing on the London stock exchange.

The core investors in the fund are expected to be a syn-dicate formed by stockbrokers Douglas le Mare, including Fidelity, Gartmore, Touche Remnant and the Trustee Savings Bank. It will be managed by John Govett.

CWS lifts half-year sales by 7.3%

THE Co-operative Wholesale Society, the retailer, food manufacturer and Britain's bigges farmer, has announced a 7.3 per cent rise in sales to £1.2hn in the six months to July 1. Trading profits increased from £12m to £14.2m and profits, after investment income and interest payments, rose by more than a quarter to £8.3m. Mr Lennox Pyfe, board chair-man, said the improvement continued the CWS's progress ce the h tured three years ago.

Kleinwort directors to join BZW

TWO directors from Kleinwort Benson are to join Barclays de Zoete Wedd, the investment banking arm of Barclays Bank, to head its corporate finance

Mr Graham Pimlott will become chief executive of the division and Mr Callum McCarthy will be his deputy.

Universities link up for

FOUR Midlands universities out efficiency audits of services ing a group of management consultants to advise on effi-

> study specific to each.
>
> Mr Michael Shattock, registrar of Warwick University, said that the four universities were able to afford a larger study than any on its own. He

Heavens above! City takes a dim view of stargazer

property prices, people weishing on their debts." Reeling and whey-faced after my con-Reeling and whey-faced after my conversation with Mr Pallant, I rang prominent figures in the City of London to ask whether astrological forecasting was on its way in. My reception was entirely negative, although Mr Pallant says numerous institutions buy his forecasts and pay him retainers in conditions of strictest secrety.

when asked if his firm read the tea-leaves or scanned the heavens. "Do you believe in astrology? My wife does. So there we are."

there we are."

"Oh no," grouned enother, as though
he had just been stabbed. "No, no, no,
no. Are you uiterly, uiterly serious?"

Yet Mr Pallant reports something of
a buil market for his inter-planetary
services. He has just bought a posh
new computer to help him scrutinise

the signs more closely. Yesterday, financial types were clearly ruffled and shocked at being questioned about their own attitudes to questioned about un financial astrology.

Mr Peter Dugdale, managing director of Guardian Royal Exchange, said: "I'm basically a cynic, and probably a loser as a result. I look at my own horoscope occasionally. Possibly our underwriting department would benefit in some way from astrology."

At Warburgs, Mr Simon Lewis, said: "As a house we don't use it as a way of calling the market. We're too busy calling the market. We're too busy looking at our screens."

you about all 1,100 employees, but as a general rule we don't dabble in it. Anyway, by Thursday the market had bounded back quite sharply. Was that

in the stars as well?"

Mr Pallant claims his forecasts are based on probability curves. "What we detect are periods of bullishness or bearishness lasting from a comple of weeks to a matter of months with a 75 to 80 per cent success probability," he

As well as producing long-term plan-etary coefficients, he claimed to be able to study short-term lunar effects on the heaving earthly mass of buyers and

sellers and to package this information in graph form.

Although "Daniel Pallant" sounds a

bit like a smooth-talking, bouffantcrested, fluffy-suited seer on one of Mr Rupert Murdoch's satellite channels -"This is a good week for Pisceans to forge new alliances at work" - he does ally exist. Some time ago he visited me at Bracken House, near St Paul's, the FT's home until it transferred its

environs of Southwark.

I discovered that Mr Pallant — midfifties, bookish, a former student of maths and physics — was easily capa-ble of surviving hugely skilled ques-tioning and forensic interrogation.

In a physical environment, he said, it was "inconceivable that even a tiny scrap of DNA shouldn't be related to much larger physical processes like planetary motions. We are cosmically sensitive, at least at the physical level. I take the view that there's less free will about our lives than people like to

It was all very pre-millennial.

BR reluctant over Channel tunnel bill

By Kevin Brown

BRITISH RAIL is expected to decide soon whether to go ahead with a private member's anisati with a private member s hill seeking parliamentary per-mission for its proposed high-speed line from London to the Channel Tunnel.

November 27 to table the bill but are reluctant to proceed unless full financial agreement is reached with the Government and the private sector. BR is still discussing the pro-

posed link with two consortia, led by Trafalgar House and Peninsular and Oriental Steam Navigation.

However the plans are threatened by a funding gap of about £1bn because environmental improvements have increased the estimated cost to

Both consortia say the project will not be viable unless the Government provides a subsidy of about £1bn, or costs can be cut by as much.

Three options are being dis-

 Abandon the bill and either seek parliamentary permission to start again in the spring or wait until next November. • Keep up pressure on the Government to plug the fund-

ing gap. Accept that plans for a tun-nel under London, made on environmental grounds, should be abandoned. This would cut the cost by about £1hn but would mean having to use existing tracks to reach the main Channel tunnel London

terminal at Waterkoo.

1,000. "The real reason for the major bear slide," Mr Pallant said yesterday, "is the Saturn-Neptune conjunction and its opposition to Jupiter. Things are fairly catastrophically heavy in any way you look at it — the economy, around £3.5bn, plus £1.1bn for Counter Intelligence FINLAND PLASTIC CARDS from the FT. The Financial Times proposes to publish this survey on: 18TH DECEMBER 1989 **6TH DECEMBER 1989** CHRIS SCHAANNING OR GILLIAN KING JONATHAN WALLIS Southwark Bridge Loudon SE1 9FIL or write to him at: Salomoukatu 17A21 00!00 Helsinki Fioland Tel: +358(0)694 0417 Fax: +358(0)693 3213 **FINANCIAL TIMES FINANCIAL TIMES**

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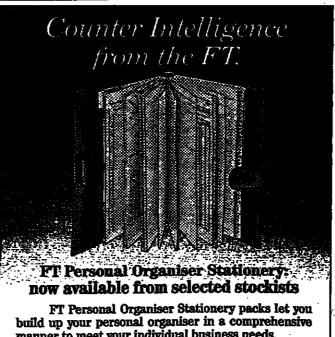
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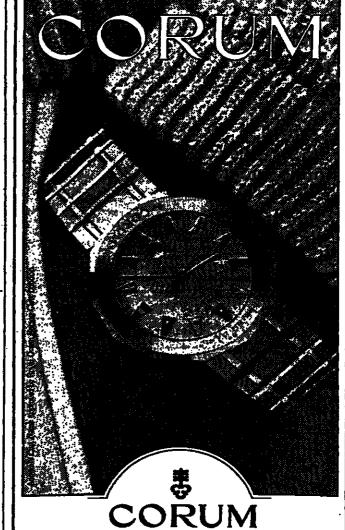
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UK NEWS

Orbitel launches pocketphones market challenge

By Terry Dodsworth

ANOTHER UK manufacturer has entered the battle for the new pocketphone market, with a range of products aimed at all four telepoint licensees.

The announcement, from Orbitel mobile communica-tions, a joint venture company set up by the Racal and Plessey electronics groups, comes within days of a similar launch by GPT, the largest UK telecommunications equipment

Both companies are marketing pocketphone handsets which comply with common industrial standards and can therefore be used on any of the four telepoint systems which have been licensed by the Gov-

GPT, however, is initially supplying the BYPS consortium - of Barclays Bank, Philips and Shell - while Orbitel will be making its products generally available through two telephone distribution companies - Nimans and National Telephone Supply. The telepoint system is based on small cordless hand-sets which can make outward calls only and which connect with the public telephone net-

to be carried in a pocket, and can be also used in the home like normal cordless phones. They will initially cost

now produced in UK subsidiaries of these foreign groups.

UK companies, however, are taking the lead in manufactur-ing for the telepoint system.

The report predicts that National Health Service pre-

scription business will become

more important to chemists. It currently accounts for 44 per cent of the £6bn of sales

through chemists shops and Verdict predicts that this will

grow to more than 50 per cent

over the next five years.

Drugstores, which do not have pharmacies, have enjoyed

a fast rate of growth in the 1980s, from a low base. Sales have quadrupled to £1bn, Ver-dict says, but this growth will

slow down. Superdrug, part of

Toiletries market 'faces increased competition' By Maggie Urry

COMPETITION between chemists, drugstores and grocery shops for the important toiletries market is intensifying, according to a report from Verdict Research, the retail

research group.
The toiletries market was worth £2.2bn last year, with Boots, the leading chemist chain holding 25 per cent of the market. Drugstores have 16 per cent of the market and supermarkets have 27 per cent. Toiletries are the most important product category for drugstores and the second strongest area for chemists. Verdict says: "The grocery

trade has identified the toiletries market as having signifi-cant growth potential and is making a concerted effort to raise its share." work through base stations operated by a radio link.

The companies are hoping the service will take off as a cheap alternative to car and portable phones presently available on cullular networks. The new sets are small enough

between £150 and £200. The two product launches bring large, indigenous British companies into the mobile telephone industry for the first time. So far UK manufacturers have largely missed out on the cellular telephone industry, one of the most rapidly expanding markets in the world over the last few years. Most of the cellular phone equipment sold in Britain is US and Japanese made, although a significant proportion of this is

Employees at this level were counselled in groups. Managers, though, usually received counselling on a one-to-one

However, of those compa-nies which said they had made ees at this level.

Companies were also asked whether they approved of the idea of including a provision in executives' contracts promising them outplacement services if they were made redun-

increasingly common in the United State Of the UK companies surveyed, 69 per cent said they thought it was a poor idea, 25

the Kingfisher group, is thought to have 45.8 per cent of the drugstore market. Verdict on Chemists and Drugstores. Verdict Research, 112 High Holborn, London WCIV 6JS. £495. own contract of employment.

Growth in demand for redundancy counselling

By Michael Skapinker

A MORI poll has found that nearly three-quarters of Britain's large companies have used outplacement consultants - firms which counsel redundant managers and help them find new jobs.

Five years ago a similar survey found that only 48 per cent had used outplacement

The poll of 500 companies, commissioned by outplacement consultants Pauline Hyde & Associates, also found that there had been an increase in the frequency with which organisations engaged the services of such consul-

Thirty per cent of the com-panies surveyed said they had used outplacement consultants four times a year or more, compared with 15 per cent in

Of those companies which had used outplacement consul-tants, 56 per cent said that outplacement services had also been offered to supervisors, clerical and hourly-paid employees when they had been made redundant.

outplacement services available to juntar staff, only 49 per cent said they had actually used an outplacement firm to deal with redundant employ-

Clauses of this sort are

per cent said it was a good idea and six per cent had no

Most of the executives responding to the survey – 68 per cent - said they would not want such a provision in their

Merger mania comes under the microscope

David Waller on an inquiry into the impact of takeovers on jobs and society

HE UK has enjoyed 🧗 something of a takeover boom in recent years. In 1988 alone, the value of acquisitions and mergers amounted to £22.1bn, more than six times the previous peak in 1972. This merger mania has

undoubtedly swollen the cof-fers of institutional investors and furnished hig fees for the merchant banking community but has it done any good for society at large?

To ask such a question amid the heat of a takeover battle would be considered the height of bad form. The debate is supposed to confine itself to a clinical assessment of profits records and dividend forecast. It would be unprofessional for a management team to base its defence on non-financial crite-ria such as the impact of a bid on jobs or public interest at

One company which did make such an appeal was Rowntree, the York-based chocolate mannfacturer bought by Nestlé in a £2.55bn bid battle last summer.

It was taken over in spite of the efforts of the Joseph Rowntree Memorial Trust then the company's largest shareholder - to haul the arguments into a higher sphere where morality and public good were to be considered more important than a



Cardboard cut-out Quality Street characters join a protest by Rowntree workers last year against the Nestle takeover

squabble over earnings per

Last week, the trust founded by one of York's early chocolate entrepreneurs decided to reopen the debate with the announcement that it is sponsoring a £170,000 inquiry into the broader issues raised by corporate takeover in the UK. This will be headed by Professor Sir Alan Peacock, former chairman of the Pea-cock Committee into the future A focal point of the inquiry will be the Rowniree bid battle, which saw Jacobs Suchard and

David Hume Institute, a thinktank based in Scotland.

Nestlé conduct a public auction over the company, much to the delight of the stock mar-ket and much to the consternation of the City of York. However, the aim will be to range wider - looking at other hid battles, at merger policy in general and the longer term

provocative. The steering committee members include Sir Adrian Cadbury, the chocolate magnate who last summer urged a change in merger policy to block the Rowntree deal, and Sir Donald Barron, chairman of the trust and former chairman of Rowntree itself. It was he who got up at the Rowntree annual meeting --held on the day Nestle launched its assault - and denounced the iniquities of the

capital market. You hear about the comrou near about the com-pany being in play as if it were an inanimate object. It isn't one," he declared to tumultuous applause. What about tradition? What about

about transition what about soul? What about people?

This approach will probably be tempered by the presence on the steering committee of Mr Jeffrey Knight, retiring this committee of the Stock. chief executive of the Stock Exchange and presumably not one to rock the takever boat. However, Mr Graham Ban-nock, the economist and consultant who will be the programme's research director, is keen to be controversial. "I see no reason why take

overs shouldn't be banned," he said last week, with his tongue only half in his cheek. "The

economic consequences of a are as a sort of market mechanism to get rid of management takeover victory.

The results are likely to be inefficiency is nonsense. What they illustrate is that there is no real competition in product markets. In making a takeover a big company is simply making sure that any nascent compatition is consoled before the petition is squashed before it

becomes a real threat."
In this context, he will be looking at companies which have grown by acquisition over a long period. GEC, which has recently gobbled up Plessey, will clearly come under the

when it announced the inquiry the trust said: "Typically companies are like trees, they take many years to grow but can be cut down in min-utes." Has the UK's merger policy resulted in the economic equivalent of the Brazilian tropical rain forest, with imponderably dire conse-quences for the business environment?

Hard-bitten merchant bankers will probably dismiss the report with the thought that the Joseph Rowntree Memorial Trust has itself done very well. out of the takeover game. At the time of the takeover it had 8m shares in the chocolate holding, the income from which had funded a variety of philanthropic projects for more than 80 years. The bid brought the trust an £58m windfall.

Exchange calls for tax changes

By Sara Webb

THE chairman of the Stock percentage of shares held by Exchange has called for tax changes to encourage private investors to invest directly in

Mr Andrew Hugh Smith urged the Chancellor to abolish stamp duty on share transactions and to reform capital gains tax (CGT) in next year's Budget. He said this would improve the exchange's competitiveness in the run-up to

the European single market.
He said that people with personal equity plans (PEPs), introduced in 1987 to encourage share ownership among private investors, should be given more flexibility so they could invest their money, which is limited to £4,800 a year, with more than one PEP fund manager each year. Mr Hugh Smith said: "The

private investors continues to fall and is now around 20 per cent." Such a trend "damages the Government's policy on share ownership and threatens to undermine the existing achievement of so many individuals owning a stake in

quoted UK industry."
Since the Abbey National flotation in July, the Exchange estimates there are more than 12m private investors in the UK but just over half hold shares in only one company. Mr Hugh Smith called for the simplification of CGT rules to encourage individuals to invest directly in shares rather than indirectly, for example through unit trusts. At present, investors may be liable to pay CGT on any share dispos-als but unit trust holders pay

the tax only when they dispose

of their units.

Mr Hugh Smith said the removal of this "disincentive for individuals to adjust their equity portfolio" would help to improve liquidity in the financial markets. He suggested that CGT should only be applied to investors who disposed of their shares and withdrew their money from the stock market and not to investors who re-in-

vested in shares. The Exchange has frequently called for the abolition of stamp duty on the grounds that it adversely affects trading volumes and market liquidity. It fears that, as other exchanges in Europe abolish their stamp duties or transfer taxes. London will provide a less attractive market place for trading in UK shares.

University team will help to end Shanghai pollution

By John Hunt, Environment Correspondent

BRADFORD University and models which will simulate the UNIRAS, a Danish computer flow of water, movement of graphics company, have won a \$5500,000 contract to help clean up pollution in Shanghai har led by Professor Roger Fal-

The university says the har-bour poses one of the world's largest water pollution challenges. The pollution comes from sewage outlets and indus-try and has caused diseases in a highly populated area.

The contract has been awarded by the European Com-munity's International Scientific_Co-operation_Secretariat, which establishes links between scientific communities in Europe and developing

countries. To tackle the problem the team will refine mathematical

coner of the department of civil engineering at Bradford University. It will work with staff from Chinese universities and research establishments and will use the simulations to decide how sewage and sedi-ment should be dispersed at sea in order to minimise pollu-

.The computer models will be tested in Britain before being applied in China.

Coastal pollution models will be tested at Poole Harbour, Dorset and at Bridlington, Yorkshire, Estuary tests will be carried out in the Humber.

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INVESTMENT AB BAHCO

Earnings continue to rise. Forecast unchanged

- Bahco's earnings after financial items for the eightmonth period ending August 31, 1989 rose 14% to SEK 291 m.
- Earnings for the full year are expected to increase by more than SEK 50 m to approximately SEK 475 m. Thus, the forecast provided at the Annual General Meeting in May remains
- Bahco's net worth on October 13, 1989 was calculated at SEK 477 per share.

Acquisitions within the EC continue

In September 1989 Bahco purchased 6.6% of the shares in the French stock exchange-listed tool manufacturer Facom for a sum in excess of SEK 140 m. As a result of this acquisition, Bahco becomes one of the largest private owners of Europe's largest handtool manufacturer. Facom has annual sales of more than SEK 1.8 billion.

The acquisition is primarily an investment within the framework of Bahco's portfolio management activities. However, the potential for cooperation between Facom and Bahco's Swedish subsidiary, Bahco Verktyg, will be examined more closely. Bahco Verktyg dominates the Scandinavian market and has a strong position in the West German market through its subsidiary Belzer-Dowidat.

In January 1989 Isaberg acquired the majority shareholding (90%) in French Konzette. Konzette is the market leader in France for office staplers and one of Europe's largest manufacturers of staples for office machines.

Industrial operations improve 15 %

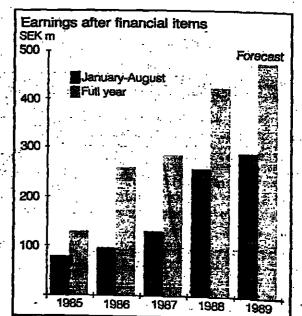
Sales by the industrial operations increased by SEK 551 m to SEK.3.1 billion, during the period. Earnings

after net financial items totaled SEK 275 m, an improvement of 15%.

Hidden reserves up SEK 372 m

The value of Bahco's securities portfolio rose SEK 435 m to SEK 1.9 billion. After adjustment for stock purchases and sales the value of the portfolio increased 27%. Hidden reserves in tisted securities rose by SEK 372 m, to reach a total of SEK 1.3

including the subsidiary Thorsmans (62%), the value of the Group's shareholdings in listed companies amounted to SEK 2.2 billion, corresponding to SEK 206 per Bahco share.



Investment AB Bahco is an industrial holding company. The Group includes 11 engineering companies with subsidiaries in some 20 countries and a securities portfolio worth SEK 1.9 billion.

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Engineering & Construction

Upgrading office **buildings**

KYLE STEWART has begun work on contracts totalling £29.4m. A £16.5m managemen contract was awarded to Kyle Stewart by Lynton for the Carriage Row, Eversholt Street, London NWL

The project will provide 106,000 ft of office accommodation in three adjoining buildings which will either be let separately or to one tenant. The Grade II listed building

is 170 metres long and is believed to be the longest listed office facade in London. Work involves refurbishing this and the rooms immediately behind, while building an extension the length of the building at

All existing ceilings and plasterwork will be retained and the new-build will carry through the five metre high rooms. Part of the basement will be converted to a car park. Work is due for completion in December 1990.

The Hammerson Group has awarded a £6.5m contract to Kyle Stewart to undertake a mixed office, residential and refurbishment project in High Holborn, London.

The scheme comprises construction of a six-storey plus basement office building, a five-storey block of flats and the refurbishment of listed buildings at 16, 18 and 20 Barter Street, comprising retail units on the ground floor with basement storage and flats on the first and 2nd floors. Work has begun and is due for comnletion in March 1991.

1-33-42

TAR STEEL

7.25

Submarine base

PSA has let a £14m contract for the refurbishment and modernisation of berths at the Clyde submarine base, Fasiane. The project will be undertaken by A MONK of Stirling, Scotland. Work will begin on site in May

Some 100 jobs will be created on site as a result of the work. This brings the number of jobs connected with the development at the Clyde submarine base to around 3,300. The work involves the provi-

aion of extensive new services to submarine berths, together with the installation of a high voltage power services distri-bution network and the equippmg of electrical sub-stations.

The works are part of the £720m construction programme being managed by PSA on behalf of the Ministry of Defence for the development of the Clyde submarine base at Fasiane and RNAD Coulport. Work started in 1985 and is expected to be substantially

CONSTRUCTION CONTRACTS

£58m City offices development

LAING LONDON has been selected to carry out the 258m contract for a major office development in the City for Scottish Widows.

The project, which is being managed by Jones Lang Woot-ton, involves the construction of an eight-storey building on a recently cleared site bordered

by 52-63 London Wall and 20-56 Copthall Avenue.

Copthall Avenue.

Designed by the Fitzroy Robinson Parinership, the scheme calls for a steel framed, stone clad building around central atria with shops at ground floor level. Parking will be provided at lower ground level along with a self-contained results of the contained results are self-contained results. along with a self-contained restaurant. Work is due for com-pletion in August 1991. Laing Yorkshire has won a 128.5m contract to build a ballistic missile early warning system at Fylingdales in North

Yorkshire. An American company, Raytheon, has awarded Laing the contract to build a pyramid structure which will replace the three "golf balls", the exist-ing system which has become one of the area's most famous landmarks.

Raytheon is under contract with Air Force Systems Com-mand's electronic systems divi-sion, Hanscom AFB, Massachusetts for the BMEWS upgrade.

A nine-storey pyramid will be built and it will house the latest early warning devices in a three-faced phased array radar facility.

cadar facility.

Construction work will consist of a steel frame with electrical magnetic pulse shielding (EMP), metal cladding and concrete floors on metal decking.

Over 40 per cent of the project value will be taken up with the sophisticated mechanical and alastical savinase the medas. electrical services the radar facility requires.

Work is expected to take two years to complete. Once it is fully installed and operating, the facility will be handed over to the RAF at Fylingdales.



New Tesco superstore for Slough

ALFRED McCALPINE MANAGEMENT has been awarded a design and construct contract worth 28,1m to build a superstore for Tesco at Slough on a site presently occupied by the Licenced Victuallers School. The school will be demolished but an historic clock will be preserved and incorporated into the structure of the superstore. Completion is due in September 1990.

Hospital work in the Channel Islands

MANAGEMENT CONTRACT-ING has been awarded two major contracts in the Channel Islands, worth a total of over £15m, for construction and refurbishment work at the main hospitals in Jersey and Guernsey. At Princess Elizabeth Hospital, the company is to construct the fourth phase for the States of Guernsey.

The two and three-storey development will provide a

maternity unit, radiology unit, specialist wards, kitchen and dining room. Access roads and a car park together with exten-sive landscaping will also be provided. The main building will have a reinforced concrete frame with pad foundations and a steel roof structure clad

Higgs and Hill Management

Contracting is to continue its long association with the Jersey General Hospital in St

Helier, with the award of a refurbishment contract, which will provide new facilities.

This contract forms part of a continuous process of upgrading the hospital to match the standard of the new facilities. The majority of the work is within an old 18th century building with solid granite walls. It will create five wards together with specialised medi-cal facilities including intensive care and coronary care

Muslim cultural centre in Northolt

A Muslim cultural centre, Methodist chapel and Pan Am's building at Heathrow, head a list of contracts for TRY MANAGEMENT amounting to

The Masjid complex at Northolt is a new religious and cultural centre for the Dawoodi Bohra Muslim community. The £8.2m contract, which has just begun on site, involves construction of a place of worship, ens, committee rooms, offices and two rows of terraced the Wesley's Chapel complex is to be refurbished, costing £1.3m. The committee room and social centre, both part of the listed complex, and the building between the manse and the chapel, are to undergo a complete face lift. Study bedrooms will be constructed above a basement conference centre.

Across London in Kensington, Try Management is to build offices and flats for sister company Try Mistletoe Properties. Kensington Cloisters, situated next to St Mary Abbot

Church, comprises four office units over three storeys, with a separate small block of flats. The original buildings have been demolished to make way for the development designed in keeping with the surround-ing architecture. Work will be completed next summer of

Pan Am's building at Heath-row is to be refurbished at a cost of £1.25m. A two-storey extension will be provided, while refurbishment of the continuously occupied Pan Am communications department is carried out.

£24m orders for Miller Construction

MILLER CONSTRUCTION has recently been awarded contracts worth in excess of £24m. The projects include an £11m civils award from Thames Water covering the construc-tion of stage 2B of the London water ring main and a £2m

infrastructure contract at Feltham in Middlesex. Contracts from Beazer Develcoments include the construction of retail units at Dale End,

include a seven-storey office block for the PSA in Bourne-Birmingham (value £2.17m), a include a seven-store block for the PSA in Bear Street, London WC2, for mouth (value £1.77m).

ments and fitouts for Safeway at Hitchin (value £1.5m) and Redcar (value £1.66m). Refurbishment contracts

Edinburgh courtroom facilities

Edinburgh's Grade "A"-listed Parilament House - seat of the Supreme Courts of Scotland since the 17th century - is to be extended for the Property Services Agency Scotland by M.J. GLESON GROUP.

The £8.68m contract has been awarded to Gleeson's Scottish & North-Eastern construction division, based in stirling. Sympathetically designed by the PSA, the extension is to be clad in stone by Gleeson and the roofing finished in lead and slate to harmonise with adjacent buildings in this conservation area. Scheduled for completion in

March 1991, the extension will provide three new courtrooms office accommodation and additional car parking.

The site in the Cowgate - one of the oldest streets in Edin-burgh's Old Town - slopes down so steeply from Parlia-

courtrooms will actually be located at the top level of the five storey complex.
Parliament House itself was
the seat of the Scottish Parliament from 1640 until its disso-

ment Square that the new

lution in 1707. Elsewhere in Edinburgh. Gleeson's Stirling office is currently carrying out extensive re-roofing stonework reinstate-ment and refurbishment of the Royal Museum of Scotland at a cost of £2.1m and the £20m reconstruction of Dreghorn

Railway bridge

As part of Lancashire County Council's Penwortham by-pass oject, CKMENTATION PRO-JECTS , a member of the Trafalgar House Group, has been awarded a 26.25m contract by British Rail to con-struct an underbridge in Preston, Lancashire.

The bridge consists of three single span pre-tensioned con-crete box superstructures with thrust-bored concrete abutments and will carry the west coast main line from Preston to Glasgow, the lines from Preston to Blackpool and other

through and siding lines. Cementation Mining, another Trafalgar House Com-pany, has been awarded three contracts from British Coal for underground roadway con-

At Malthy Colliery, Cementa-tion will undertake a £3.6m contract for British Coal's South Yorkshire area. Work will entail driving under-ground roadways of 5 by 3.6 metres to a total length of up to 2,000 metres.

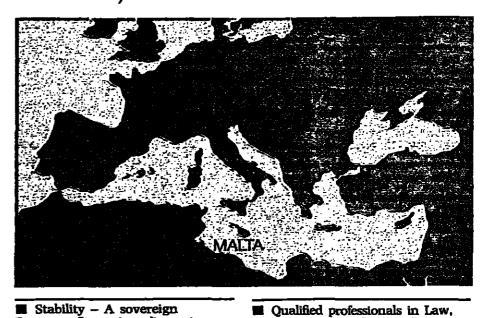
This new contract at Malthy Colliery follows the successful completion of the 220m Number 3 shaft sinking contract at Maltby carried out by Cementation Mining.
A second award for roadway

work will be undertaken on a £800,000 contract at Agecroft Colliery for British Coal North West group. Under a 50-week project, Cementation will drive a single 550 metre roadway. Cementation Mining has also

won a £431,000 contract from British Coal, North Yorkshire area, to drive a new main roadway to replace one in poor con-

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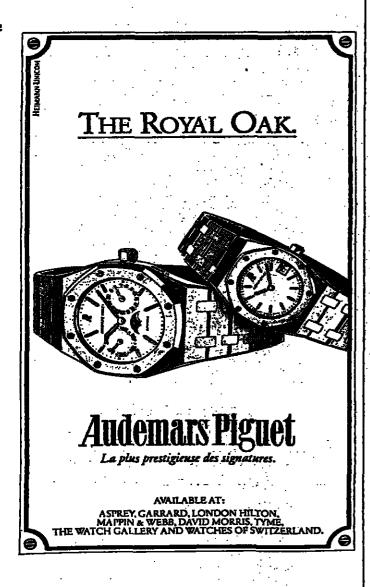


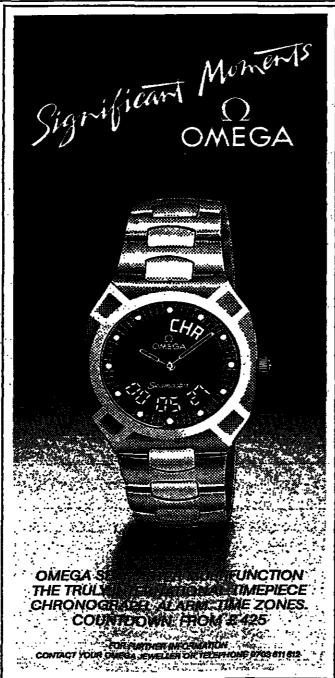
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FINANCIAL TIMES



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>Open

At last, the computer manufacturers forget their differences.

t is lunchtime at the main Offenbach plant of Man Roland. A group of local trade unionists - Mesers Frank, Winkler, Enders, Reiss, and Wich -is entertaining a visiting foreign delegation of British university professors in the executive dining

There are some managers in the room also. On this occasion, though, the role of extolling the virtues of working for one of the world's biggest producers of print-ing machinery to this delegation of somewhat battle weary UK indus-trial relations experts has been left to the trade unionists.

That the university professors, while tucking into generous por-tions of campari, wine and venison, are taking copious notes is hardly surprising. Mitbestimmung worker participation in manage-

ment - has been well-known to West Germans for several decades. But only recently has it begun to generate a much wider interest given the bubbling debate within the European Community over the issue of the social dimension.

At Man Roland worker participations built into the corporate

tion is built into the corporate structure, but it falls well short of structure, our it has wen short that the "creeping marxism" that Britain's Prime Minister, Margaret Thatcher, fears lies behind the European Commission's proposed Social Charter.

The company's annual accounts begin not with the report of the chairman but of the Aufsichtsrat, the supervisory board, boldly claiming that over the past year the company has "continuously gained information on the situation of the

company and on important ques-tions of management."

It is the kind of phrase that might well send a chill down the spine of many a British manager. And yet as Claus Müller, personnel manager at Man Roland, explains, co-participation falls short of co-determination,

even in Germany, "The supervisory board has no major influence on changing or pre-

Industrial relations

A model to be imitated elsewhere in Europe

Jimmy Burns examines the experience of management/labour consensus at Man Roland, the West German printing machinery maker

and the second second of the second of the property for the second of th

venting major investment deci-sions," says Müller, whose com-pany's list of customers ranges from the Soviet Communist Party (an order for printing presses was placed last year by the Party's youth newspaper) to media magnate, Rupert Murdoch.

Major policy decisions are still taken by an executive board of directors, on which sit bankers and major shareholders but no workers. Even on the 12-person supervisory board, workers are outnumbered by

management representatives.

Nevertheless the workers are not without some clout. Industrial relations at Man Roland are conducted through a complex system of infor-mal and formal relations between senior management and employee representatives.

Two members of the supervisory board, Heinz Frank and Klaus Schmidt, are also the deputy-chair-man and chairman respectively of the works council. The council prides itself in having a consider-able influence on a whole range of issues affecting the conditions of

Under German law, pay increases are negotiated separately from discussions over working practices and conditions on a regional and sector by sector basis between the employers association and the unions.

However, management has to discuss with the works council through its various committees issues like health and safety, over-

machinery, and redundancies "At a regional and national level unions are very strong in wage negotiations and are prepared to

take industrial action to get results. . but here in the plant both sides are obliged by law to listen and recognise each other," says Heinz Frank, a a former turner who has served on the works council for 18 years.

Arguably, the legal context in which industrial relations in Ger-many is conducted is in striking contrast to those in Britain where a decade of anti-union legislation has in many instances provoked con-

in many instances provoked con-frontation rather than dialogue.

At Man Roland, attempts by man-agement to introduce a new data system for processing biographical and wage details of individual staff was delayed by two years because of works council objections that it might infringe on people's liberties.

The works council also forced the management to back away on plans management to back away on plans to operate computer-controlled ink-ing machines with flexible shifts involving semi-skilled as well as skilled staff.

Even though demographic change in Germany, as elsewhere in Europe, has provoked an acute shortage of skilled labour, the work-ers council insisted on this occasion that the proposed changes in work-

ing practices could endanger health and safety. It is frictions such as these which

time, the introduction of new lead Müller to concede that there are managers in Germany who believe that industrial relations are too restrictive and that "change is necessary."
He insists, however, that they are

in a minority and he is not among them. "I agree that the works coun-cil can take up a lot of time and energy. But in the end I think it

energy. But in the end I think it makes retraining easier and dismantles prejudicial resistance to new technology."

In some British companies change is often discussed with unions in periodic and acrimonious bursts during national pay negotiations. At Man Roland the human and commercial implications of new and commercial implications of new technology are the subject of regu-lar discussions between a reduced group of works council representa-tives and senior managers.

The friction in industrial rela-The friction in industrial relations has been the exception rather than the rule. Although workers at Man-Roland joined the national strike in support of the 35-hour week in 1984, the plant itself has not had a localised dispute since 1986. In the intervening period, the company which employs over 7 000

company, which employs over 7,000 people, has moved in leaps and bounds towards flexible higher quality production. It now claims to have an almost unparalleled range of products from small sheet-fed machines for commercial printers to three-storey Colorman presses. Faced with examples of what workers councillors refer to as



major concessions by management, Müller points to change which has been possible by what he describes "large measure of give and

On the thorny issue of working time and the impact of new technology management and the works council have secured what both describe as their own "model agree-ment" aimed at maintaining the momentum of productivity.

New machines introduced at the plant now have a high degree of interchangeability between skilled and unskilled workers. The workforce on the whole has a 37-hour week written into contracts, although in reality the majority of

employees work 38 hours in return for five extra days' holiday per annum. There is in addition an available "task-force" of highly-flexible workers prepared to work up to 40 hours or less than 37 depending on management needs.

After lunch at the Offenbach plant, the works council representa-tives act and sound like line managers as they take the university pro fessors on a tour of the plant. Questions about pay and hours are skilfully deflected and met by bull-ish statements about the high standard of the work carried out by the computer-controlled machines and the enthusiastic involvement of the

Significantly the tension that exists at Man Roland appears to have less to do with management employee relations than with

employee union relations. In the West German metallurgical sector, nearly 90 per cent of members of workers councils are members of the metal workers union iG Metall. The union conducts regular trade union courses for works councillors in communication and negotiating skills, and appoints "liaison

officers to ensure that links remain strong between the council, the shop floor and central Ki Metali. And yet at Man-Roland, recent elections for the works council were thrown into considerable confusion when the shop floor refused to accept the official list put forward by IG Metall on the basis that if was

not sufficiently representative.

Last week, Messas Frank, Winkler, Enders, Reiss, and Wich – all
militant members of IG Metall – insisted that they were the only members of the 23-man works coun-cil sufficiently "representative" of the rank and file to speak with the

outside world. Heinz Frank admits the union mparatchiks are now engaged in a "hectic battle" to ensure that they are re-elected. "It's going to take a lot of tough organising to keep union control."

The first real test is likely to come in the next few months when the relative stability of Man Roland's industrial relations could be threatened by a wider union bat-tie over a further reduction to the

working week.

Nevertheless management at the company remains reasonably confident that labour consensus will survive. Far from "creeping Marxism", Müller agrees with Frank that West German companies have a model of industrial relations that deserves to be bettered by the rest of Europe monstrai relations that deserves to be imitated by the rest of Europe.

Says Müller: "I think perhaps the problem you have in England is that not enough thought has been given to the social model that is

needed for capitalism to work."

Unimation robots are exported from Telford. Managers at Telford say this is unlikely to

undergo a significant shift because of what they see as chronic investment policies by large slices of British industry.

"In a typical British com-

pany there is a lot of reluc-tance to look at the issue of

robotics," says Clayton. "How

many jobs can you save is still,

sadly, the main question you meet. The issue is still who can

they get rid of next rather than

looking at the long term benefits of quality, production repeatibility and lowering costs for short run produc-

o what is the market like in the UK for industrial robots? "It's on the floor," says Phil Binding, marketing manager for Unimation, Britain's sole mainstream

robot producer. The awful roller-coaster ride the UK's lonely player in robotics has endured over the past few years has been parily shaped by the rather feeble British market for automation

But it has had more to do with Unimation's own parenthood, absentee management and the pressures of competi-tion which by the middle of last year had reduced the company to a bit-part component supplier with a staff of just 85.

UK 'reluctance' to think long term with robotics It was with some relief for Clayton, the 39-year-old gen-

Unimation's British managers, therefore, when its parent, Westinghouse of the US, sold it last December to Stäubli, the Swiss textile machinery and robot maker. Now, with an initial planned

capital investment of £500,000 at its site in Telford, Shropshire, a bit of prodding of managers and some reorganisation, Unimation (renamed Stänbli-Unimation) is assembling complete robots again and its workforce is above 100.

"There is a much better feel-ing here now," says David

eral manager at Telford who has spent virtually his whole working life at Unimation.

Britain is a tiny supplier of robots. It does not have pro-ducers of the size of Asea Brown Boyeri, Kuka of West Germany, Fanuc and Kawasaki of Japan. Unimation, a robot assembler not a manufacturer, is really the only mainstream

UK hrand name.
Clayton rolls his eyes and moans quietly when the chequered history of Unimation is

The company was set up in

the 1960s in the US by an engineering entrepreneur and produced the world's first robot showing it on the Johnny Car-

son TV show in 1967.
The US company, Condec, bought Unimation and a British selling and design arm was set up in the early 1970s with co-operation from Guest Keen and Nettlefold. GKN eventually backed out

and, in 1981, the British Technology Group and the Department of Trade assisted in the setting up of an assembly operation to make in Telford the US-designed Puma series of robots. Condec got into difficulties and in 1982 Unimation was

bought by Westinghouse.
Westinghouse subsequently discovered that the \$108m it paid for Unimation was a high price. Nevertheless, it pressed ahead with production and development.

But Westinghouse's plans to develop a new electronic robot were scuppered when Japan's Kawasaki beat it to the draw with its own model. In 1987 Westinghouse shut the Connecticut plant, sold off its hydran-lic robot business to Prab of the US and cut UK staff to 85.

Clayton remembers the Westinghouse days as very bureaucratic a situation be feels "par-ticularly harmful for a small company like ours." Stäubli, which had been a

distributor of Unimation robots, had started making its own robots in 1985. At the end of 1988 it had completed the purchase of the whole of Unimation for an undisclosed sum.
Since then, Telford has
restarted assembly of complete robots. Clayton says the objective this year is to supply 340 robots from Telford as well as controllers for Stäubli's Swiss-

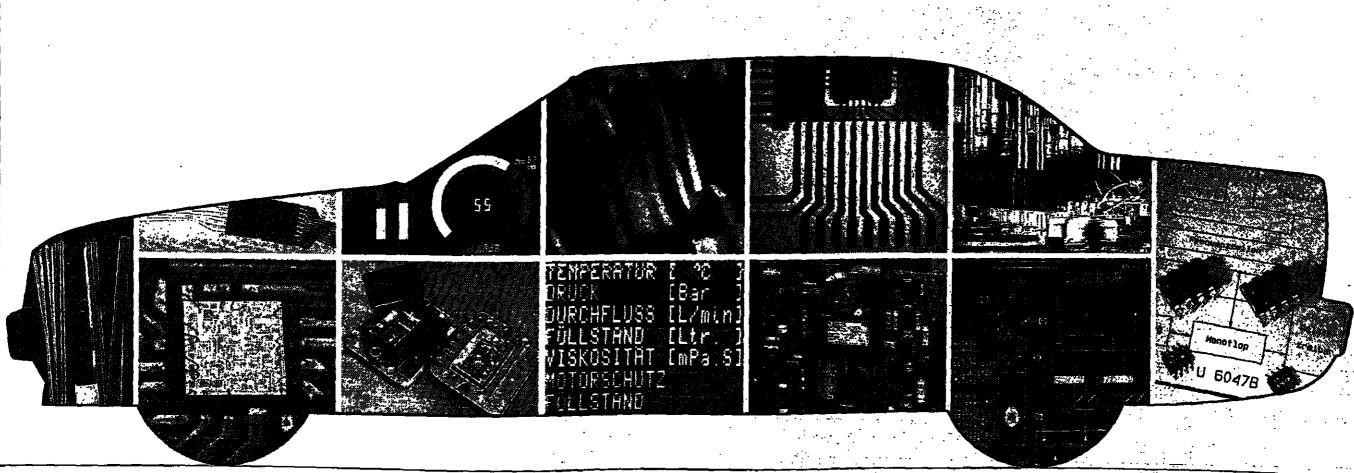
plied 312 robots so far this year and is heading for sales of about £10m. The long term sim is to be supplying a thousand robots a year by 1992. Clayton says British manag-ers have had plenty of ideas on

how to improve Unimation and Staubli is giving them the Stauhli is giving them the chance to put some of those into practice. That includes redesigning the shopfloor. The new Swiss owners have also been encouraging a tougher attitude with component suppliers on quality.

About 90 per cent of Stäubli-

Nick Garnett

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ARCHITECTURE

A brave search for perfection

Colin Amery reports on this year's Aga Khan Award

sus sewers; the past versus the past versus the present; spirituality versus materialism; almost East versus West. These were only a few of the debating points raised in Cairo last week at the presentation of The Aga Khan Award for Architecture.

The Award was initiated in 1977, when the Aga Khan and

1977, when the Aga Khan and his advisers looked at the Moslem world at a moment of incredibly rapid oil revenue-funded change and felt that something was badly wrong. It was founded to commend architectural excellence of an appropriate kind in all corners of the Islamic world. But the Award itself is only the tip of a

The Award aims high: "to nurture within the architectural profession and related disciplines a heightened awaremess of the roots and essence of Moslem culture, and a deeper commitment to finding mean-ingful expressions of the spirit of Islam within the context of modern life and technology." This is a tough agenda. It has provoked a searching process that incorporates think tanks and seminars, papers, publica-tions and a series of interna-tional committees of damiting complexity. Through all this emerges a conviction to grap-ple with that massive issue, the search for a new environ-ment. It is a search which the

Aga Khan invites the whole world to join. The Aga Khan's involvement brings both a high level of seriousness and a measure of spectacle to the Award's proceedings. Last week as the sun went down over the great

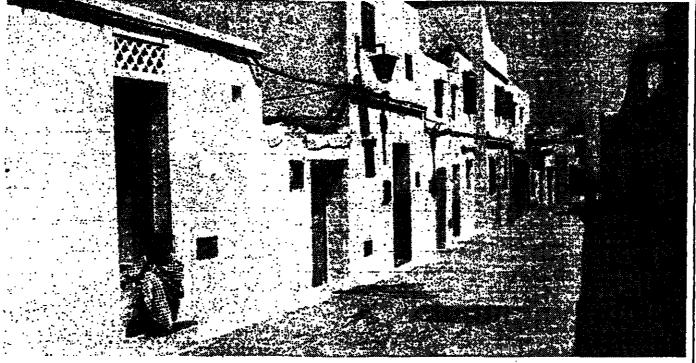
Cairo Citaldel of Salah al-Din, the Aga Khan, accompanied by Mrs Suzanne Muharak, wife of the President of Egypt and a ragged panonty of police bands, bagpiners and pikemen, arrived to announce this year's winners. Somehow the specta-cle reinforces the dilemma of the whole award: the wander-ing leader without a land, culturally based in America, England, Switzerland and France yet spiritually at home in the Islamic world; generous in his hospitality but conscious, as the Award is, of the anomaly of the need for conspicuous expenditure to focus the eyes of rich nations on the

One winning project of the final eleven stands out because it shows how architecture at its most basic can help the development process in poor countries. The Grameen Bank housing project in Bangladesh tackles the problem of housing the landless poor. The bank was created in the 1970s as a co-operative association to lend money to people who have no

needs of the poor.

As part of the programme to help with the provision of flood-resistant houses, a kit of simple parts was devised to be distributed, along with an average loan of some \$350 (£220). Four concrete columns, corrugated fron roofing and a latrine are provided – the bor-rowers provide the rest. Gradually modest houses are built, and the loans applied to income generating projects to ensure repayment. More than 45,000 houses have now been built and the defaults on the

low interest loans are as low as The Grameen system of



The rehabilitation of Asilah, Morocco, which dates back to the Phoenicians

loans has become a social and development organisation. It depends on the creation of groups of borrowers, all of whom promise not to default. Further loans are conditional upon the disciplined repayment by the whole group. Most of the borrowers are women and they clearly exert a kind of group moral pressure to ensure the small loans are repayed. As the 20th Century draws

towards its end the problem of rural and urban poverty remains a curse that must somehow be lifted. This grass roots loan system, working not as charity, but as a stimulus to work and improvement, offers a potential route to the eradication of primary poverty and the Aga Khan Award to this scheme demonstrates a determination to keep the defini-tions of architecture and environmental improvement as

wide as possible. Traditionally the Award has encouraged the careful restora-tion of monuments, old quar-ters of towns and buildings

that will always be seen as exemplars of the high points of the Islamic style. The impres-sive total rehabilitation of the town of Asilah, a town on Morocco's Atlantic coast that dates back to the Phoenicians, was this year's major example of urban restoration. The total restoration of the war-damaged restoration of the wardamaged Grand Omari Mosque in Sidon, Lebanon inspired the jury to see it as, "a beacon in a tortured land." A new mosque on the Corniche in Jeddah, Saudi Arabia was designed by the London based architect Abdel Webed M. Webil It is antipoly Wahed Kl-Wakil. It is entirely traditional and was applauded by the jury for the way it, reflects the luminous past of

Islamic societies." It was this Mosque that inspired the fiercest debate of the Cairo conference; it is the debate we are achingly familiar with in Britain. Is it right to ignore the present and copy the past? The answer is that it is wrong to toss away tradition and perhaps equally wrong to

modernism on the Islamic world. It was a problem that has always worried serious architects. Lutyens, when he was building the great Indian capital of New Delhi, did not want just to copy Indian styles or to stick them on to Western classical architecture. His work at New Delhi showed that a new synthesis is possi-ble in the search for architec-tural universality. He falt that the rounded arch had something to offer the East, and wrote at the time that "God did not make the Eastern rainbow pointed to show His wide sympathies." It is this kind of boldness to re-examine the architecture of both east and west

that the Aga Khan Award tries very hard to achieve. Sometimes I feel that the Award is let down by the architects, who seem unable to aspire to inventive change. The inclusion of the excellent new Ministry of Foreign Affairs in Riyadh (designed by the Dan-ish architect Henning Larsen) shows how a fruitful synthesis

between modern architectural practice and the inspiration of the indigenous past can pro-duce, in the right hands, a new masterpiece. Whether this is true of the National Assembly Building in Dacca, Bangladesh, designed by the late Louis Kahn from America is much more debateable. It was also awarded a prize, as was the Institut du Monde Arabe in Paris by the French architect Jean Nouvel, which is equally problematical as an example of the partial imposition of Islamic ideas upon a high tech structure.

But debate is at the heart of this brave search for Islamic perfection. The Aga Khan Award recognises that we all live in one world with different traditions. It is where those traditions meet that there is the potential for debate that can be creative. It is a brave thing to take on the whole modern world; and perhaps heroic to look for a universal

Stop the World

Stop the World - I Want to Get Off, by Anthony Newley and Leslie Bricusse, returned to the West End last week only to west that iast week only to prompt such dire, not so heretical, thoughts as "Stop the show — I want to get out."

In an evening of unadulterated whimsy, the ageless Newley recreates his allegorical hero Littlechap, sings as well and curiously as ever he did,

and yet still manages to leave you (or to be exact, me) limp with dissatisfaction.

As a "one-off", some com-mentators in 1961 considered the show "avant-garde." New-ley had worked with John Cranko in revue, and his

monomaniac story, so putridly uninteresting and, well, allegorical, compared with O'Toole's Jeffrey Bernard immediately next door on Shaftesbury Avenue, is encum-bered with a female corps de ballet in black tights and hal-

They dance workers, Red Army elbow-jutting poster peo-ple, parliamentarians and girl-friends. Their corporate submission is infinitely more interesting than Newley's coy dominating egoism, and I salute the work of Dollie Henry, Wendy Schoemann, Julia Howson and Kim Ismay. The slobberchops sentimentality is even less appealing now than it was to Caryl Brahms in the first place, who described "a sort of fable, funny here and there, in what

used to be known as the Expressionist manner."
A Cockney white-face chappie is born under a revolving globe. Clad in blue T-shirt, braces, and checked suit, he impregnates the boss's wife, Eve (the very tall and entirely wasted Rhonda Burchmore), is posted to the firm's Northern outpost in Sludgepool, is sent to Moscow and New York where he seduces female busi-ness associates (also played by Miss Burchmore), joins the Snobs' club, goes into politics (as a man who knows his unions, he says "up the TUC"), is widowed and finally dies

Newley is a capable mime,

wondering what kind of fool he

Newley is a capable mime, but I shall never again complain about having to watch Marcel Marceau. He is neat and surprisingly un-bored with his own songs. "What Kind of Fool Am I?" is new-minted after the excessively ham treatments of Norman Wisdom and Sammy Davis Jr, the lyric laid with expert rubsto phrasing with expert rubato phrasing over a melodic counterpoint. "I Wanna Be Rich" retains a

certain peppiness, encapsulat-ing the working class ethic of getting on and getting out which the show as a whole cel-ebrates. And "Gonna Build A Mountain" remains an excel-lent item, with tart lyrics and a

driving pulse.

Everything else struck me as pretty awful, with the exception of "Someone Nice Like You," a charmingly melodic duet for the couple who come to realise too late what they have lost.

My reactions are similar to those I had when the sequel,
The Roar of the Greasepaint –
The Smell of the Crowd, was
revived last Christmas at the Orange Tree.

As musicals, the shows are dead ducks. Anthony Newley's production, titivated by David Gilmore, is as good as it could

be. But finally dreary.

The absence of any dramatic context or energy is glossed over in a staging (choreography by Kenn Oldfield) that now seems as avant-garde as Frankie Vaughan, who graced the First Night proceedings alongside Newley's ex-wife,

Joan Collins. Douglas Heap's design is either a manufacturing ware-house or a rehearsal room, with an upstage aperture that both frames Littlechap at cru-cial moments and contains a monumental silhouette of the old reaper. Not least among this sloppy musical's unsolved mysteries is the gratuitous obsession with unexplained

Michael Coveney

ck Carr

ROYAL FESTIVAL HALL

The cellist Mstislav Rostropovich is in town to play three concerts, for which the Strauss evening on Friday will have provided a marvellous centrepiece. Although there is general agreement that Don vixote is one of the most consistently inspired among Straus's tone poems, the piece can be difficult to bring off in a concert, where the lone cello pero is pitted against an orchestra of awesome size and

complexity. In this grand and impassioned performance, given as part of the autumn Strauss series being presented by the Royal Philbarmonic Orchestra under Vladimir Ashkenazy, it was as though those problems did not exist.

Rostropovich simply has two great strengths that put him at the head of the field when it comes to playing this part: the renowned big cello tone to make himself heard and force of personality with which to sketch a striking character por-

At every point this Don Quirote was marvellously dis-tinctive. One might cite the headlong vigour as Rostropovich sent his knight charging into the band of pilgrims or the pathetic shriek for help as he met his match in the final con-test with the "Knight of the White Moon," neither equalled

by any other cellist I have heard in the piece. The whole of the final scene was also deeply moving, with Quixote's dying gasp expiring on the most shaky and infirm whisper of sound.

Altogether there was a greatness of vision, a generosity of feeling about the playing that added up to all that is best in jointly by Strauss and Cer-

On a purely musical note one might argue for a performance that brought to the score a greater analytical clarity. But Rostropovich and Ashkenazy seemed at one in their general approach to the work, playing both its flamboyance and its expansive lyricism for all they were worth.

After the interval we had Ein Heldenleben, which Ash-kenazy had conducted just a few weeks earlier at the Proms with his other orchestra, the with his other orchestra, the
Berlin Radio Symphony. This
was better played by the BPO
and in that respect more convincing — a big, full-blown
account, given to grandiose
gestures that did perhaps go
some way towards making
sense of the appellation "Arrogent comins" bestowed upon gant genius" bestowed upon the unfortunate composer for

Tantz-Schul

OPERA DE PARIS

On Friday night the new season began for the Paris Opéra Ballet. With the Bastille house now given over to opera. the French have with characteristic pride and artistic good sense, made Garnier's great palace a home for dance. It would not, of course, be the Paris Opéra if there were not a drama brewing and Rudolf Nureyev, director of the ballet, is currently is dispute with the administration and busy with a North American tour of The

King and I. But Jean-Albert Cartier, general administrator of the Opera de Paris Garnier (as the building is now to be known), has devised a bold season under the new dispensation, the Opera Ballet's own performances interspersed with visits from the Kirov, Hamburg, Bejart and Paul Taylor compa-

The opening programme is given over to Jiri Kylian, teaming one of his recent pieces, the *Tantz-Schul* made for Ned-erlands Dans Theater in May, with Sinfonietta which dates from 1978.

The score for *Tuntz-Schul* is by Mauricio Kagel and is inspired by the melodies in an 18th century dance manual by Gregorio Lambranzi, Published niforminate composer to series.

in Nuremberg in 1716, the "New and Curious School of Theatrical Dancing" was

intended by its author to enable the reader to perform the noble or grotesque dances

he had devised Its fascination for later generations has been its vivid illustrations. Each page shows dancers in dramatic poses, sometimes wildly eccentric (as when dancing with a roasting-spit, or linked at the waist by rope), the text headed by the tune of the dance and an often extravagant title ("Game of rackets and Witches' Sabbath"; "Statues and Models") and fur-ther embellished by a cartoonstrip at the foot of the page, in which manikins caper and pos-ture around the details of how

the dance is to be performed.

There is a seething imagina tion here, with characters from the commedia dell'arte, from daily life of Lambranzi's time, all touched with a daring sense of their theatrical possibilities. And it is this that has inspired

To the 18 sections of Kagel's lively score he has devised scenes inspired by Lambranzi's most "curious" imagery and titles - John Macfarlane's excellent stage design is similarly animated — and has extrapolated from them incldents concerning the nature of

master, is found among cross-hatched pillars that reflect the dance manual's engravings. Hilaire has an opening solo --by turns witty, ardent, lubri-cious -- and the full extent of the Garmer stage is revealed as a white box into which action and accessories will be

placed.
An inner stage — part of the depths of the Foyer de la danse — will serve as another theatre for the ballet-master. There follow a series of entries in which Lembranzi is the starting point for movement satiric, grotesque, serious. Burlesque Spanish dancers (three men en travesti) a bird-footed huntsman shooting hyperactive swans (a consummation devoutly to be wished for by ballet-goers), numbers for Bac-chus and Turks, are interspersed with scenes in which simply-clad dancers are the raw material for the ballet-

There are physical japes and caprices of design when stage perspective is heightened, as the soprano called for by the score appears as a glantess matched by a normal-sized dancer and a tiny automaton that rolls merrily about the

dancing today.

And at last, as Kagel repeats

Matters begin well. Laurent: his musical themes in inverse

Hilaire, in formal black dress order, Kylian rolls back the

of an 18th century dancing action in nightmare fashion as

the ballet-master seems alternately victim and master of his creations. With a running time of 80

minutes, *Tantz-Schul* is long. Too long, indeed, for Kylian has been unable to resist tricks from the theatre's magic box and does not deploy enough of those felicities and ingenuities of choreography — or the edi-torial scissors — that can dominate such extended material. The idea for the ballet is brilliant and it has visually stunning moments, but it is to Lambranzi and John Macfarlane that it is most indebted

for vitality.

The Opera dancers are everywhere at their best. Laurent Hilaire, technically superb, gives a magnificent performance, buoyant, despair-ing, sardonic, as master of

these revels.

The succeeding Sinfonietta is dancing Czech to Czech.

Kylian's burningly sincere response to Janacek's score is compounded of ecstatic racings about the stage and Central European yearning. Given by a tremendous cast headed by six of the Opera's finest dancers, it has ever looked to me like a faked orgasm of national feeling and I would swap it all for 30 seconds of Balanchine's

Clement Crisp

OBITUARY Sir Anthony Quayle

Sir Anthony Quayle, who died on Friday aged 76, was one of the outstanding personalities in the British theatre this can-tury whose colly approxiwas not always fully appreci-ated. In many ways he was the architect of the Royal Shakespeare Company which was

ford-upon-Avon as a director and actor in 1948 and played Falstaff in the 1951 history play

the Shakespeare Memorial Theatre until 1956 and was certainly instrumental, as Sally Beauman recounts in her history of the RSC, in gaining the succession for Hall (with Glen Byam Shaw, he had earmarked Hall for great things), though his departure from Stratford was finally marred by acri-

He was an inveterate nomad, a renowned company leader

of Compass Theatre Company or compass Theatre Company in 1982, a troupe he led gal-lantly around the regions, playing Prospero, Cauchon in Saint Joan, King Lear and the Mayor in The Government Inspector

Inspector. As an actor he was a com manding presence, with steely blue eyes that were an especial asset in the cinema (Ice Cold in Alex, The Guns of Navarone, Anne of the Thousand Days), and a clear, persuasive and

instantiy recognisable voice. He played Aaron to Olivier's Titus Andronicus in 1957, Sir Charles Dilke in The Right Honourable Gentleman in 1966 (he always looked the part of a statesman or politician in evening dress) and Andrew Wyke in the hit thriller, Sleuth,

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FINANCIAL TIMES

ARTS GUIDE

MUSIC .

The Philharmonia conducted by Esa-Pekka Salonen, with by Ess-Pekka Salonen, with Sarah Leonard (soprano). Stra-vinsky, Ligett. Royal Festival Hall (Mon) (928 8800). Boyal Philharmonic Orchestra conducted by Vladimir Askhen-ezy, with Elisabeth Sidenström (soprano). Elichard Strauss, Mah-ler, Royal Festival Hall (Tues) 1928 8800. (928 8900).

(928 8900). Orchestra of the Age of Enlight-emagast conducted by Gustav Kuhn, with soloists, Haydn. Queen Elizabeth Hall (Wed) (928 8800). The Philharmonia conducted

by Carlo Maria Giulini, with Sal-vatore Accardo (violin). Weber. Festival Hall (Thur) (928 8800).

Etena Obrazisova Recital. Gav-eau (49530507) (Mon). Orchestre Colonne conducted Orchestre Colombe conducted by Philippe Entremont (piano). Berlioz, Mozart, Tchatkovsky. Salle Pieyei (45632873) (Mon). Ensemble Intercentemporain conducted by Peter Botvos: Gie-len, Hoeller, Ligeti. Opéra Comi-que (43960611) (Mon). Bruno-Leonardo Gelber, piano recital. Théâtre des Champs Ely-sées (4720887) (Mon). sees (47208637) (Man). Orchestre de Paris conducted by Rudolf Barshai, Joseph Suk (yiolin). Mozart, Martinu, Brahms. Salle Pisyel (45630796) Brahma, Salle Pieyel (45630796) (Wed, Thur). Orchestre National de France conducted by Wolfgang Doerner, with Rudolf Buchbinder (pizno),

Yumi Nara (sourano): Dae, Moz-art, Dvorak. Théâtre des Champs Elysées (47203637) (Thur).

New Arts String Quartet per-forms Beethoven, Ichiyanagi, de Pablo and Ravel. Pakis des de Pablo and Ravel. Paints des Beaux Arts (Tues). The Monnaie Symphony Orches-tra and Chorus conducted by Sylvain Cambreling, with Harald-Stamm (bass), Jean-Claude Van-den Eynde (piano) performing Mozart (Wed, Thur). Theatre Royal de la Monnaie. Le Trio Français performs works by Fauré, Jolinet, Lalo and Moz-art. Cercie Royal Caulois (Wed).

Amsterdam Amsierdam Baroque Orchestra with the choir of the Netherlands Bach Society and soloists, Ton Koopman conducting, Mozart (Tue). Concertsebeuw (718 345). Theo Bruins (plano) and wind soloists. Beethoven (Thur). Con-

certsrebouw. (718 345). Utrecht

Amsterdam Baroque Orchestra
with the choir of the Netherlands
Bach Society and soloists, Ton
Koopman conducting, Mozart
(Mon). Vredenburg (31 45 44).
Netherlands Philharmonic.
Orchestra conducted by Barmut
Haenchen, with Olga Martinova
(violin) and Jan Stegenga (cello).
Brahms (Tue, Wed). Vredenburg
(31 45 44).

Rotterdam

Netherlands Wind Ensemble conducted by Richard Dufallo. Gerswin, Barber, Stravinsky. Doelen (413 2490) (Tue).

Quartetto Borodín. Beethoven, Webern and Shostakovich (Wed). Conservatorio G. Verdi Florence

Soviet Radio Orchestra conducted by Vladimir Fedoseev playing Tchalkovsky, with Vladimir Ovcinnikov (piano), winner of the 1982 Tchalkovsky prize (Tues). Teatro Verdi (21,2830).

The Solisti Veneti conducted by Claudio Scimone. Vivaldi, with figurist James Galway (Wed) Teatro Olimpico (393904) Vladimir Ovchimikov (piano). Rachmaninov (Thur) Teatro Ghione (63.72.294).

Wiener Mozart Orchester in his-torical costume, Conducted by Konrad Leitner, Mozart, Konzertheus (Wed) Dentsche Kammerphilbarmonie Denische Kammerphillarmonie conducted by Maria Venzago, with: Jehn McLaughlin (guitar). Milhaud, Ives, Schoenberg, McLaughlin. Konzerthaus (Mon). Wiener Kammerorchester con-ducted by Ottokar Prochezka. Mozart, Debussy, Ravel, Verdi, Richard Strauss. Konzerthaus (Tues)

Munich Philharmonic Orchestra conducted by Sergiu Celibidache, Bruckner (Tue). Verdi, Strauss, Brahms (Wed). Anditorio Nacional de Musica Strassburg Philharmonic Orches-

tra. Theodor Guschlbauer conducting with Pierre Carette (cor anglais), C Prieto (music spe-cially composed for the Autumn

Festival), Berlioz (Thur) (337 01

Barcelona

London Symphony Orchestra conducted by Kent Nagano, with Mstislav Rostropovich (cello). Milhaud, Honegger, Dworak; cele-brating Catalonia's 1,000th amiversary, sponsored by Banco Bilbeo Vizcaya. (Thur) Gran Teatre del Licou (318 91 22).

New York

Orchestre Symphonique de Mon-treal conducted by Charles Dutoit, Schubert, Hindemith, Prokofiev (Mon); with Midori (violin). Wagner, Bartok, Stravin-aky (Wed) (247 7800) Carnegie Hall

Hall.
New York Philharmonic conducted by Leonard Bernstein.
Copland programme (Tue):
Tchaikovsky programme (Thur).
Avery Fisher Hall (874 2424).
Peter Serkin (piano) and Young.
Uck Kim (violin) recital. Beethoven programme (Wed). Kanfmann Hall (996 1100).

Washington

Andre Watts piano recital. Cho-pin, Rachmaninov (Tue). Ken-nedy Center Concert Hall (467 4600).

Moscow Virtuosi directed by Vladimir Spivakov with Maria Joao Pires (piano), Mozart, Gubaidulina, Haydu (Wed), Kennedy Center Concert Hall (467

National Symphony Orchestra conducted Hiroyuki Iwaki with Leonidas Kavakos (violin). Toshi Ichiyanagi, Dvorak, R. Strauss (Thur). Kennedy Center Kennedy Center Concert Hall (467 4600).

October 20-26

Chicago

Chicago Symphony Orchestra conducted by Gunter Wand. Bruckner programme (Thur). Orchestra Hall (435 6666).

Academy of Ancient Music conducted by Christopher Hogwood, with Melvin Tan (fortepiano).

Mozart, Beethoven, Schuhert.
Suntoxy Hall (Mon) (505 1010). London Philharmonic Orchestra conducted by James Loughran Mendelssohn, Showa Women's University Hitomi Memorial Hall, near Sangenjaya (Tues) (780

5400).

Kyung-Wha Chung (violin), with
the NHK Symphony Orchestra
conducted by Kazuyoshi Akiyama. Beethoven, Brahms (Tues,
Wed). Suntary Hall (Wed) (211

5555). Jessye Norman (sonrano), with Phillip Moll (plano). Showa Women's University Hitomi Memorial Hall, near Sangenjay. Ward) 1998 2000; memorat itali, near Sangerijaya (Wed) (289 9399). Leningrad Philharmonic Orches-tra. Wagner, Berlioz, Liszt (Wed); Tchaikovsky, Beethoven (Thur). Bunkamura, Orchard Hall (236

1616). Traditional Japanese Music: koto, shamisen etc. ABC Kaikan Hall (Thur) (436 0430). Camerata Musica, Berlin. Moz-art, Vivaldi. Suntory Hall (Thur) and a widely respected director. This led to the formation

founded by Sir Peter Hall in 1960_ Quayle had gone to Strat-

He was artistic director of

He made his London stage debut in 1931, joined the Old Vic in the following year and played a string of important classical roles throughout that decade. He served with the Royal Artillery during the

in 1970. He did surprisingly would say scandalously - lit-tle for either the new National Theatre under Olivier, or the RSC, but he directed The Idiot at the Old Vic for the NT and appeared opposite Peggy Ash-croft in Old World for the RSC. He was made CBE in 1952 and knighted in 1985.

SALEROOM

Strength from Impressionists

important sale of the new art market season on Saturday in New York in a fairly satisfied frame of mind. The John T. Dorrance collection brought in \$131,297,870 (£83m) from six auctions. The total was com-fortably above the low estimate of just over \$100m, but less than the \$140m high forecast. These days the auction

houses have become used to being pleasantly surprised by how well sales have gone; this time there was no great cause for celebration. But at least Sotheby's secured the \$100m. guarantee reputedly offered the Dorrance heirs to win the collection against competition

from Christie's.

Dorrance, who died last spring, inhetited the Campbell Soup fortune and was a great art collector for more than 30 years. But the dependence of the art market on Impressionist pictures for its turnover came across strongly from this sale. The 44 top paintings brought in over \$116m of the total on Wednesday night, leaving the American and Brit-ish pictures, the furniture, sil-ver and ceramics, which accounted for another almost

900 lots, way behind. Top price on Saturday was the \$440,000, double estimate, paid for a Louis XVI ormolu mounted mahogany bureau plat of the late 18th century, signed J. H. Reisener. A set of

Sotheby's finished the first six George II gilt decorated scarlet japanned cane side chairs of around 1735 went for \$352,000. They had been sold by David and Lady Pamela Hicks from Britwell House in Oxfordshire ten years ago. Two large Chinese jade vases and covers of the 19th century, 21in high, went to a New York dealer for \$231,000 while a Meissen and German ormolu centrepiece, mounted with French porcelular high processors. lain blossoms, mid-18th cen-

tury, did well at \$90,750. A very different deceased estate comes under the ham-mer of Christie's South Ken-sington on Cheltenham racecourse today: 10,000 unsold items from the stock of the antique dealer Ronald Sum-merfield. A famous local eccen-tric, Summerfield ended his days buying up flats in the town in which to store his assorted collection of pictures, silver, clocks, jewellery, in fact everything. He seems to have sold little.

Many of the objects are still in their packaging and the overall quality is low. Basically he bought antiques from the break up of local houses, an upper class Steptoe. But antique dealers will be looking for bargains missed by Christie's in its mammoth cataloging exercise. The sale is the longest it has held this cen-

tury, stretching over six days. Antony Thorneroft

FINANCIAL TIMES

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When justice is on trial

LAST WEEK'S decision by the Court of Appeal to quash the convictions of three Irish men and one English woman who had spent 14 years in jail for bombings by the IRA raises questions about police procedures, the weighing of evidence, the mechanism of prosecution and the adversarial nature of British criminal pro-

ceedings. They need answers.

There was a general feeling of outrage at the bombings of public houses at Guildford and Woolwich in 1974, in which seven people were killed. This may explain, although not excuse, the sense of urgency which led the police to alter notes of interviews, suppress significant matters, and give false evidence at the trial of the four in 1975. It is now the wight to be possible that thought to be possible that senior persons may have instructed those lower down to tell lies in court. If this suspicion turns out to be well-founded, no amount of pressure could explain it away. It is not uncommon for the police to adjust their notebooks before giving evidence in cases in which they are, rightly or wrongly, convinced of the guilt of the accused. The practice is a consequence of a role-playing court procedure, in which the principal objective - to ascer-tain the truth - can some-times be overshadowed by the

compulsion to win the case. The worst dangers of this method of determining guilt might be avoided by the general adoption of Scottish prac-tice, whereby a suspect is questioned shortly after his arrest by the procurator fiscal, whose functions combine those of an examining magistrate and a prosecuting counsei.

Further reforms

A truly independent, properly funded, directorate of public prosecutions, charged with reviewing all the facts in important cases before allowing proceedings to continue, could perform this function in England and Wales. Although the establishment of the Crown Prosecution Service is a step in this direction there are ques-tions about its terms of reference and the adequacy of its

Strengthening the service might alter the nature of the pressures upon the police. Fur-

clearly necessary. The safe-guards introduced by the Police and Criminal Evidence Act of 1984 ought to be extended. It should not be possible to convict on the basis of confessions alone, even in ter-rorist cases. If confessions are to be admissable they should be tape-recorded, preferably in the presence of a solicitor, and best put to the accused by an examining magistrate, since it is possible to intimidate a suspect before turning on a tape.

Independent body

The suitability of the Court of Appeal as a means of obtain-ing justice is also under question, since the wrongful convic-tion of the Guildford Four stood unquashed for 14 years, in spite of being examined sev-eral times by both the court and the Home Office. Perhaps there should be an independent review body, as recom-mended by the Home Affairs Committee of the House of Commons; alternatively the court should widen its own horizons to include the total review of all aspects of suspect

These structural questions require further thought. Sir John May, who will head the judicial inquiry into the affair, will report on the circumstances leading to the wrongful imprisonment of the four. He will also investigate the circumstances leading to the 1976 trial of the Maguire family for possession of explosives. Resistance to the Irish pressure for a similar inquiry into the case of the "Birmingham Six" will also be difficult to justify. Such inquiries may go some way towards establishing blame, and pinning it on individuals

- but they are not intended to perform the task of a root and-

branch examination of the sys-tem of criminal justice itself. Such an examination, by a properly constituted body, would serve a useful purpose. There is scepticism about police evidence, as shown by the decisions of many juries. Confidence in judges and the appeals system may have been severely damaged by the events of last week, in spite of the fact that, in the end, the mistake was admitted and matters were put right. It is now the system that needs to be put

A triumph of common sense

THE DIPLOMATIC breakthrough between Argentina and Britain last week is a heartening example of the triumph of common sense over prejudice and rhetoric. The agreement negotiated in Madrid provides a realistic frame-work in which the two sides can normalise their relations and heal the scars left seven years ago by Falklands conflict. Furthermore, with Britain demonstrably making friends with Argentina again, the one potential irritant in its broader

relations with Latin America should disappear.

Argentina has formally accepted that its historic claim of sovereignty to the Falkland islands cannot again be pur-sued by force. By putting the issue to one side and committing himself to improve relations with the UK. President Carlos Menem has implicitly admitted Argentina has other priorities. These are all too plain to see in the country's hyperinflation, indebtedness and the weakness of its democratic institutions. Yet for a man steeped in the nationalist bombast of Peronism, President Menem has shown considerable courage by negotiating in the knowledge that he could obtain so little to soothe the nation's wounded pride over the Falklands debacle.

Britain has seized the opportunity presented by the advent of a new Argentine president willing to break the deadlock. There has been a tendency in Whitehall to sit far too tight and let Buenos Aires sweat in the belief that no Argentine government, civilian or military, was either stable or trustworthy. The Foreign Office, so pilloried for reading Argentina wrong in the run-up to the Falklands conflict, deserves some credit on this occasion for persuading Mrs Thatcher to drop her objections to dialogue.

Consular relations

The deal envisages a quick re establishment of consular relations, the restoration of direct air links and the settlement of contentious issues of practical benefit to both sides. For instance, working groups will be set up to consider military confidence building measures and co-operation over fisheries. The inability to talk directly about control of the

lucrative fishing business in the South Atlantic has seriously prejudiced conservation measures in the past five years. The two sides also need to have mechanisms in place in order to avoid military friction. Despite strong pressure, Britain has refused to remove the 150-mile protection zone round the Falklands. The Ministry of Defence argues that this is the most cost-effective means of defending the islands. However, an intelligent concession in the Madrid agreement was to realign the protection zone with the Falklands fishing conservation zone in the area contiguous with Argentine mainland territorial waters. Argentine vessels will be allowed to fish in just over 5 per cent of the protection zone.

Residual mistrust

The degree of residual mis-trust between the two sides is underlined by the cautious approach to full diplomatic relations. These should come after the next formal meeting of diplomats in February 1990. But the move is difficult to make since both sides have to come to terms with the source of conflict, the Falklands. Argentina has to find a for-

mula whereby its claim to the Falklands is not forgotten, while assuring Britain that the islanders' future as British citizens is peacefully guaranteed. Britain has to define more clearly the political future of the 2,000 islanders and how they are to be protected. The huge capital costs of new defence facilities have been absorbed, but Britain's annual military spending on the Falklands is still at around £100m. This covers the maintenance of a 1,400- to 1,600-strong garrison capable of protecting the Mount Pleasant airport/military complex until reinforcements arrive from the UK. The garrison has been pared to the

minimum and any cuts would undermine defence credibility. This said, the post-1982 Falklands military buildup has been predicated on an Argentina that was manifestly aggressive and untrustworthy. Logically, such a view should begin to disappear with relations on the mend. But Argentina must recognise that it still bears the onus for establishing a new basis of trust.

r Nigel Lawson, the Chancellor, is not noted for his sense of fashion. But he sometimes sports a handsome tie depicting Britannia in a laurel wreath with the letters EC

and the dates 1939-1979.

The tie is one of a limited series produced for Bank of England staff who worked in the exchange control department. It is a last reminder in Government of the vast array of controls introduced as a war-time measure and which continued to invade

sure and which continued to invade practically every aspect of British business life until 10 years ago today. Although few people realised at the time, the abolition of exchange controls by Sir Geoffrey Howe, Mr Lawson's predecessor, was one of the great turning points in Britain's post war economic history. It marked far more than the end of a great British tradition of busybody-

a great British tradition of busybody-ing. The dismantling of the measures, which were designed primarily to pro-tect Britain's foreign exchange reserves from chronic balance of pay-ments weakness, exposed the UK economy to the harsh discipline of cutside market forces. The Courts outside market forces. The Govern-ment's decisions, which were imple-mented overnight, ushered in revolutionary changes for industry, the City and Government policy.

During the 40 years of exchange controls, the rules were continually altered to reflect changing circumstances. At times they could be draconian, as in 1966 when Mr Harold Wilson's Labour Government was fighting to stave off the devaluation of sterling and British travellers were not permitted to take more than £50 abroad on holiday. Such rules had been relaxed by 1979, when the newly elected Conservative Government

elected Conservative Government started on what was expected to be a gradual programme of liberalisation.

The overnight abolition of all remaining controls 10 years ago was none the less a radical step. "We decided there was nowhere left to go but over the cliff," Sir Geoffrey recalls. "It was the only decision of my political life that has guer given

my political life that has ever given me a sleepless night." British residents were given complete freedom to keep and use foreign currency for travel, gifts, loans to non-residents and investment in for-eign property and securities. People no longer had to have their passports marked with the foreign currency bought to take on journeys abroad. All rules inhibiting outward portfolio investment and inward and outward direct investment were lifted. An entire Bank of England department, which had employed 1,650 people at

The end of exchange controls was one of the great turning points in Britain's post war economic history

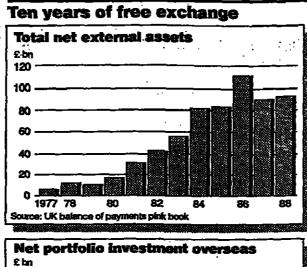
its peak in 1950 and about 750 in 1979,

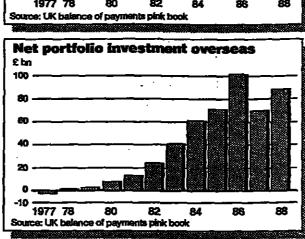
was disbanded.

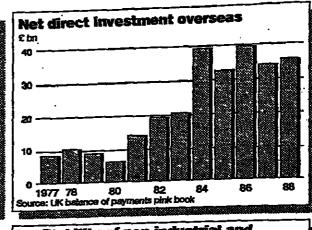
The abolition coincided with other important changes in the economy. At the end of the 1970s, Britain was emerging as an important oil producer and as an exporter was to be a major beneficiary of the 1979-80 oil price rise. Higher oil prices, together with the election of a Conservative Government pledged to combatting inflation, caused sterling to rise sharply on foreign exchange markets. On a trade weighted basis, the pound advanced by more than 25 per cent in 1979 and 1980.

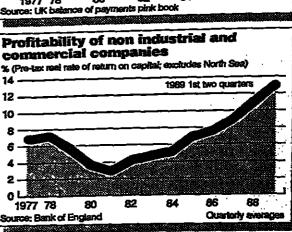
This combination of factors turned back the clock. Britain again became a large international investor as it had been before the First and Second World Wars. As the charts indicate,

Peter Norman on the 10 years since the abolition of UK exchange controls Going over the cliff









the lifting of controls unleashed pent-up demand for foreign assets by investment institutions. It also appeared to emourage direct invest-ment abroad even though the controls had been applied liberally in this

The accumulation of assets abroad many of them at the time of a strong pound in the early 1980s – turned out to be a first rate investment for Britain PLC. The assets will provide a large nest egg for when North Sea oil runs out. The dividend and interest payments make a significant contribution towards offsetting the UK's present large trade deficit.

Less obviously, the lifting of exchange controls had other effects on the British economy and society

which may turn out to be of greater importance. The end of exchange controls appears to have played a vital part in boosting British industry's profitabil-ity from the very low levels of the early 1980s to levels not seen for for 25 years. Mr Douglas McWilliams, the Confederation of British Industry's chief economic adviser, argues that behind the jump in the company secmore than 12 per cent last year is the financial pressure of shareholders who know that they can invest abroad if UK performance lags behind the international average. The end of exchange controls has therefore contributed powerfully to the revitalisa-

tion of British management.

• Abolition reinforced the international culture of the Britain's financial services industry ensuring that London would remain one of the main

international financial centres.

The diversification of portfolios gave the City a head start over other centres in gaining experience of trading foreign shares. Bankers say it was no coincidence that London's comput-erised dealing system for international shares functioned without prob-lems last Monday when continental bourses seized up in the wake of the Friday the 13th plunge on Wall Street. As international financial markets became more global, additional activi-

ties converged on London creating a virtuous circle of deregulation, innovation and expansion. Hence, US banks now are in London in an attempt to exploit opportunities in mergers and acquisitions. The City has used the era of iloating exchange rates to meet demands for hedging instruments and develop derivative markets such as options and futures. The successful removal of controls set a precedent and provided an impe-tus for further domestic deregulation, including successive Conservative Government privatisation programmes. By opening the British economy to the world, exchange control abolition has made it more diffi-

cult for a future Labour government to reverse the the overall thrust of Government policies of the 1980s. Abolition of British exchange controls was also an important signal in what was to be one of the dominant features of economic policy making in the 1980s: the rolling back of the state and the liberalisation of markets. Pioneered in the UK and the US, market based economic policies became the new orthodoxy of institutions such as the International Monetary Fund and the Organisation for Economic Cooperation and Development. In the European Community, Britain became a tireless advocate of removing exchange control and this goal is due to be completed by next July in virtually all member states.

But in combination with cheap

communications technology, the giobal phenomenon of deregulation and liberalisation also poses prob-lems. The increased volatility of markets, and the way in which extreme price movements can spread from country to country and across time zones, are among the negative conse-quences of the new order.

According to Sir Adam Ridley, who helped prepare the Conservative Gov-ernment's decision to eliminate con-trols and who now is executive director of Hambros Bank, international

financial markets at present consti-tive a "fair weather system."

There is, he argues "still insuffi-cient prudential control of financial markets and institutions to eliminate the dangers of cracks in the world's financial system when it is under-strain as it will be from time to time."

Although the leading industrial coun-Although the leading industrial countries have reached agreement on a system of minimum capital adequacy rules for international banks, supervi sory authorities have in general falled to keep pace with the internationalis-ation of markets that has followed the gradual removal and dilution of exchange controls. "We need strong market participants as well as regulated markets," he says.

Nearer home, the end of exchange controls 10 years ago undoubtedly added to the problems of running British economic and monetary pol icy. The end of exchange controls reduced the authorities' understanding of what was happening in the British economy. According to the Bank a number of important statisti-

cal sources were discontinued.

In a nostalgic article written for the Spring 1960 issue of the Bank's Old Lady magazine, Mr Douglas Dawkins, the last head of exchange controls, modelled that controlled the controlled the controlled that the controlled the controlled that the controlle recalled that controllers gained an insight into many areas of business. "Foreign trade, greenfield investment, take overs, investment securities, oil, insurance, shipping, diamonds, films, bloodstock, commodity trading, merchanting, documentary credits, factoring. Rurphand issues roll over creding, Eurobond issues, roll over credits, cheque cards, bureaux de change, trust law - the list is almost end-

Together with Government cuts in the statistical services during the 1980s, the removal of exchange controis has left the authorities with far less insight into how the British econ-

omy is developing. As one Treasury official admits: "It is no problem fore-casting the economy. It is knowing where we are that is the difficulty."

The lifting of controls soon landed the Government's monetary policy in trouble. At the time of abolition, the Government's monetary target was sterling M3, a broad measure of money supply that was kept under control by a special supplementary deposit scheme, known as the corset.

The corset worked by requiring banks to make special deposits at the Bank of England if the deposits placed with them should exceed a specified rate of growth. In a society with exchange controls, the reaction of the banks to such a restriction was to ration credit for borrowers and reduce competition among themselves for deposits thus keeping the money sup-

ply under control.
Once controls were removed, the banks found frustrated borrowers were using offshore banking centres to borrow funds. The corset became ineffective and money supply growth eapt, delivering an early blow to the Government's medium term financial strategy that was supposed to put the economy on a predictable and even keel. Ultimately the Government gave up trying to target broad money.

But abolition has brought advan-

tages as well as disadvantages to Britain's economic managers. In the early days of Mrs Thatcher's first Government, when sterling was soaring and putting large sections out of British industry out of business, the absence of exchange controls enabled funds to flow abroad and prevent the pound rising still further.

But nations that depend on foreign financing for current account deficits must ultimately succumb to the disci-pline of the market place. The absence of exchange controls helped Britain to enjoy a consumer binge in 1988 as long as foreign investors had faith in Government policies. With the Government determined to maintain a strong pound as an important part of its counter-inflation strategy,

Nations that depend on foreign financing for current account deficits must succumb to the discipline of the market

the price of correcting the overheating in the face of growing international scepticism about Britain's economic prospects has been a doubling of bank base ra May 1988.

Mr Lawson's recent problems are a reminder that a market related system depends crucially on investor confidence. He cannot complain that he was not warned of the dangers.

When scrapping the controls 10 years ago, Sir Geoffrey Howe declared boldly that they had "now outlived their usefulness." But he added prophetically: "The essential condition for maintaining confidence in our current is a superpopert determined to rency is a government determined to maintain the right monetary and fis-cal policies."

Oslo bound

■ Flying to Oslo last Monday, the day the world's stock mar-kets were supposed to fall apart, one got a sense of just how difficult it is to stay in touch with the financial markets when there is no longer a Reuters screen at hand. If this had been the US, the pilot would no doubt have been briefing his passengers on how the Tokyo market had closed and how much London equities had fallen at the opening. But all the British Airways pilot seemed interested in was the state of the Oslo weather.

There was not a word of apology for his employer's ill-fated involvement in the collapsed UAL deal, which had triggered the sharp drop on Wall Street, nor for that matter was anything mentioned about the tyre which burst on landing. Obviously, BA thinks it important not to scare its financial passengers even though it has not always shown similar consideration for the nerves of some of its

Given that the local stock market was the biggest casu-alty of the October 1987 global stock market crash, there might have been expected to be signs of unease among the local businesses community If it was there, it was well hidden. There were no ticker tape machines rattling in the hotel lobby and the only source of outside information was the hotel's cable TV. Sadly, it was not hooked up to CNN, so there was no chance of catching Lou Dobbs' Moneyline from Wall Street, but the European Business Channel, which is backed by the rather unlikely combination of Swiss banks and Radio Luxembourg, did a surprisingly good job.

Ship talk

First stop in Oslo was the headquarters of Bergesen, one of the world's few quoted

Observer

blue-chip shipping companies. Unlike Britain, Norway remains very much a seafaring nation and once again the Norwegian owners are expanding rapidly. International investors, who have been combing the world for asset plays, have made a lot of money over the last couple of years by invest-ing in companies like Berge-sen, Leif Hoegh, Kosmos, Kvaerner Shipping and Storii. But is the party over? Svein Amundsen, Bergesen's

deputy managing director, is not as bullish as some Norwe-gian owners, which is a polite way of suggesting a few may be over extending themselves. But he is optimistic about the longer term outlook. "Most of the elements are saying that the next decade will be better than the last", he notes. However, Bergesen still has to decide when to replace its age-ing fleet of 17 super-tankers, a task which could cost upwards of \$1.4bn. When it does, it will be a sure sign that the industry really is back on a sound footing.

As for why Britain has abdi-cated its traditional leadership in the shipping industry, the Norwegians are too polite to hazard a guess. Blaming it on unfavourable tax laws, bolshy mions and high wage costs is not good enough. The simple fact is this is one area where Norway has far more entrepreneurs than the British.

Oil man Norway, which is western Europe's largest oil producer behind Britain, has increasingly found itself in an international spotlight not least because of its oil production restraint policy designed to help Opec prop up sagging world crude oil prices. As the sparsely-populated country's Oil Minister, the 62-year old Arne Oeien was befriended by myriad Middle

BANA "We've come to take you to hospital on my riot shield"

East sheiks and found himself a guest in many a royal tent. However, last week Mr Oelen was forced to step down when a new Government was formed.

Norway's new oil supremo is 36-year old Eivind Reiten, a Centre Party man, and a former Minister of Fisheries Who has been spending his time out of power learning about the energy business as a director of Norsk Hydro, Norway's biggest public company. However, his image and dress sense seem to have been inspired more by Parisian designers such as Jean Paul Gautier, than by the traditional Brooks Brothers style preferred by Today, Peter Morrison, Britain's Minister of State for Energy, will meet Mr Reiten for the first time as his first official visitor. Mr Morrison will be forgiven if he mistakenly approaches the wrong person for the usual diplomatic exchange of hand-shakes. In this instance, however, Mr Morrison is advised to approach the youthful looking man wearing a shocking pink

Hard work ■ Another area where the Nor-

wegians are much more opti-mistic than the British is shipbuilding. As the British Government dismantles what is left of a once proud industry, the Norwegians are buying up British shipyards at bargain basement prices. The secretive Fred Olsen has never said much about why he was pre-pared to take on an industrial albatross like Belfast's Harland and Wolff. But the 43 year old Erik Toenseth, the new chief executive of Kvaerner, Norway's biggest mechanical engineering group, is confident that his firm will soon be making money out of Glasgow's Govan shipyard, which Kva-erner bought for £8m 15

months ago.

Kvaerner has long since stopped building ships at its own yards at Stavanger, Moss and Fredrikstad and is now concentrating its shipbuilding on Govan, which he says will be as efficient as any shipyard in the world in two to three years time. "People's memories are always very short. Ship-building used to be a very prof-itable industry." He is comfdent that the industry will have its day again, and sooner than many think.

If he is right, and he may well be, then the Government's fire-sale of the British industry may not have been a missed opportunity after all

Drunk joke

■ A Norwegian bemused by the bright lights, at least, of Tivoli Gardens in Copenhagen won as a prize at a cocomut shy, a tortoise. Some hours later, more bemused, he comes back but his eye is as straight as before. He wins again. Asked what prize he wants, he says: "Another hamburger, but without the bread as hard as last time."

William Hall

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The German state railway is one of the few surviving national institutions. It provides the best way to see rivers and forests, to peer into fair-grounds, car scrapyards and the back windows of apartment houses. The railway gives insights into complexi-ties not visible from the road. Watching the way people get on and off trains reveals national traits.

In Germany, passengers move ner-vously towards the door ready to descend about 10 minutes before the locomotive stops. They fear that life will somehow run out of control, leav-ing them stranded.

The German rallway age started in 1835. Anniversaries nowadays are celebrated separately, in two German states. The first line linked Nuremberg and Fürth, today in West Germany; the first trunk service was between Leipzig and Dresden, now in the East. Incongruously, the state railway of the German Democratic Republic retains nowadays the name of the pre-war company, the Reichsbahn, set up in 1920 — almost as if the Empire were still waiting in the

shunting yard. West Germany's Bundesbahn is richer and smarter-looking than its East German sister, and provides it with discreet subsidies. East and West Germany also have rival model rail-way companies. Märklin, the marketway companies. Markin, the market-leader, founded in 1859, has its head-quarters in the Swabian town of Göp-pingen in Baden-Württemberg. It regards itself as a good deal superior to its East German counterpart, Piko, based in Sonneberg, the Thuringian centre of the East German toy

Reflecting the fall in the birth rate. Märklin is pitching ifs sophisticated products increasingly towards adults. Even a modest Märklin train set can cost around DM 600 (£209). Wolfgang cost around DM 600 (£200). Wolfgang Huch, Märklin's quietly decisive managing director, says that grown-ups turn to model trains in part hecause of the rising pressures of everyday life. "A model railway can be directed—it is a way of recovering from a world outside which is not so easy to

Märklin offers imperial railway trains stretching back to the 1840s. West German railway enthusiasts are traditionalists. Next to the soft-porn magazines in station bookstalls can be found copies of pre-1945 Reichsbahn timetables.

The Bundesbahn itself is a mixture of ancient and modern, combining plushness, pride and functionality. The marcon inter-City coaches exude aristocratic solidity, their corridors patrolled by blue-coated Schaffner (conductors) with the air of medieval major-domos. Efficient-looking railway police roam the railway stations looking for drunks. The Bundesbahn consumes 3 million rolls of toilet paper a year in its well-disinfected lavatory compartments. The gliding restaurant cars are a pleasure to patronise. They dispense 1m breakfasts, 170,000 steaks and 180,000 hotpot soups a year. You can choose muesli with hot milk if you like. The meals arrive in china crockery, not plastic.

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David Marsh, the FT's Bonn Correspondent, reports on three aspects of the German way of life



Wanderlust and model trains

One of the best lunches in Europe is Sanerbraten served on the spectacular stretch of the Rhine between Koblenz

and Mainz. There are 11,000 Schaffner, all state functionaries or Beamte, a species bequeathed by Prussia. One pleasant surprise is that they are friendly and not at all imperial. Most are male, their girth, age and sense of impor-tance increasing in proportion to the size and speed of the trains entrusted

Conductors have an elaborate, set-piece way of asking for tickets, like a question from a multiple-choice examination. "Noch jemand zugestiegen?" (Has anyone got on?) they intone. Late coming passenger can pay fares en route to the conductor for a small extra charge. The Schaffner will not protest he has no change. He will not even sigh. It is an absolutely routine service - a praiseworthy mark of

flexibility Since 1985, the Bundesbahn has pre-vailed upon its Schaffner to serve drinks and snacks to First Class passengers. Reiner Gohlke, an enthusiastic former IBM computer executive who has been the Bundesbahn's chairman since 1982, says that persuading Beamte to serve coffee was one of his greatest achievements. "That was an unbelievable sensation."

A tousle-haired ox of a man perpetually in shirt-eleeves, Gohlke says he he knew nothing about trains when he took on the job. He always used to

travel by car. Now, he says, driving along the Autobahn makes him

he motorways show Wanderhist in action. They are clogged with gleaming cascades of metal, flashing their headlights at sub-80 mph dawdlers. The airports are lined with sun-seekers. The West Germans have become the world's greatest tourists - a sign of restlessness.

West Germany has more than 29 million cars, crammed into a country the size of the US state of Oregon. The Germans' travel enthusiasm is an

befitting a people whose borders have never been fixed. Goethe believed that "Die beste Bildung findet ein gescheiter Mensch auf Reisen." (For a man of intelligence, travel gives the best education.) According to the 19th century poet Gustav Freytag, "The German love of wandering ultimately expresses the search for an ideal country."

ssion of national character,

Needless to say, the Germans are still looking — and they go ever further afield. Footloose knights accomplished the conquest of eastern Europe. As part of the medieval guild system, apprentices used to journey for a year — the Wanderjahr — to gain experience before settling down in a trade. Although legends of rovers and dreamers form part of every nation's folklore, traditional German songs and fairy-tales feature excessive

numbers of wandering carpenters and journeymen, princes and tailors. There is a deep-held view that indi-

vidual destiny can only be found far from familiar surroundings. Heimweh "homesickness" — can be rendered into English (although Heim is not easy to define). But Fermueh — "longing for beyond" — cannot be translated. The Germans in the East share of course the man to the same of the course the same translated. of course, the urge to roam - one of the reasons why they do not like the barred-off border to the West. Travel is partly a means of escaping

drudgery. Surprisingly, for a country with such a reputation for indus-triousness, the Germans do not appear to enjoy working. Elisabeth Noelle-Neumann, the doyenne of the country's opinion-pollsters, who runs the Allensbach opinion research institute, has discovered that her compatriots are rather depressed. She puts this down to Germany's traumatic history. Only 15 per cent of Germans say that they are very proud of their work, against 83 per cent in the US, 79 per cent in Britain, 71 per cent in freland and 42 per cent in Spain. The Germans look forward to their weekends more than people in other countries. Work seems to wear them out.

ell-heeled Germans do not like to show off their riches. There are nine Germans in Fortune magazine's list of the 130 wealthiest people in the world. Only one or two have any glitter. "We lack

CONTRACT CARBOTT TATITUDE CONTROL OF A TRACTOR

the chic charity set you have in America," laments Werner Rudi, the youth-ful former editor of the country's best-selling daily newspaper Bild. He concedes that a lot of spicy German news has to come from abroad — "the likes of Rambo or Joan Collins" -because of the lack of home-grown material. He casts envious eyes at Britain. "The British royal family is like a dream - it's Dallas, only its

Top of the German wealth league is Johanna Quandt, the widow of industrial magnate Herbert Quandt. Johanna and her family own 70 per cent of car-maker BMW, and are reputed to be worth \$3.5 hillion. They lead disposet lives Herbert's stop. lead discreet lives. Herbert's step-mother later married Joseph Goebbels and died with him in the Berlin bun-ker in May 1945. This detail aside, nothing about his life appeared over-

konrad Henkel, the grandson (now in his 70s) of the founder of the Henkel chemical company — famous as the maker of Persil — has a fortune of \$2.9 billion and throws parties at his villa home near Düsseldorf. Next in the list comes Friedrich Karl Flick, son of Third Reich industrial magnate Friedrich Flick. He stays in hiding most of the time. The only real candidate for Bild's attentions is Prince Johannes von Thurn und Taxis, valued, like Flick, at \$2.7 billion. The Prince's ancestors in 1490 established a European mail service which provided the family with a continental postal monopoly until the 19th cen-tury. The Prince is a playboy-turnedageing-husband now in his 60s. In 1980, to the delight of the gossip-col-umnists and the fashion photographers, he married a young countess, Gloria. She rides motor-cycles around Bavaria and wears outrageous

The head of the House of Hohenzollern also enjoys the eye of the public - at least, the older people who still care for such things. Louis Ferdinand Viktor Edward Albert Michael Hubert, Prince of Prussia and the grandson of William II, is an avuncular 80-year-old with a look of well-worn ntility. Louis maintains his claim to the throne, but says this could be realised only after reunification of East and West Germany – something he accepts he will not live to see. Louis parries questions about his finances, murmuring, "We are not exactly poor." He is not in the For-tune list. If the royal family is still held in some esteem, "that is because we are completely harmless," Louis Ferdinand chuckles.

The pages of illustrated magazines are full of the tame exploits of Louis' well-behaved children, but the Germans are quite happy to maintain the Hohenzollerns as no more than harmless curiosities. In 1976, Allensbach discovered that only 7 per cent of the population wanted a restoration of the monarchy. Thereafter, it considered the subject not interesting enough to be worth polling further. This is an extract from David Marsh's book The Germans: Rich, Bothered and Divided, published by Century Hutchinson, £16.95.

LOMBARD

Sterling viewed from Frankfurt

By Samuel Brittan

HORSE-DRAWN CARTS are the only public transport allowed in the old main street of the university city of Heidelberg, but I was told that electric carts, like those used in Zermatt, would soon make their appearance. Would the two forms of transport would compete? "No. The electric carts only pay at a price of two Marks a ride, while a horse-drawn one-or charms less." drawn one can charge less than one Mark. So the horses will have to go." This reason-ing might make sense in a city where Hegel professed logic but it is a far cry from the competitive social market economy of Ludwig Erhart. But do not make the fatal

nistake of underestimating the German economy because of the absence of charismatic economic intellectuals. A British housewife would not find very daring the experiment in extending shopping hours from 6.00 to 8.00 pm one day a week. The main attack on economic rigidities comes not from the universities but from the flexible new immigrants from East Germany and beyond.

Above all, the Federal Republic is still providing the public good of price stability to fixed exchange rate against the Mark as an anti-inflationary anchor. The Bundesbank is not enjoying the process. It spent DM 3.5bn a week ago support-ing the Danish Krone. Denmark has ample reserves with which to repay and has been increasing interest rates to strengthen its currency. So the process is workable. The Bundesbank complains that the Mark has shown a real depreciation since the end of 1987. But on its own figures most of this was accounted for by a 131/2 per cent fall against the Dollar. Against Community partners, the depreciation has been only 4 per cent and this mostly against the peripheral countries. There has been no change in competitiveness against its key partner France. Indeed, it is now accepted that the French government has no intention of seeking a realign-ment. The bilateral deficit of France and Germany is a bad guide to policy.

The Bundesbank is resigned to British membership of the

Exchange Rate Mechanism and is leaving the British Cabinet to sort out its own disagree-ments. I mentioned that France was likely to end exchange control well before the July 1990 deadline and thus fulfill one of the Lawson-Thatcher conditions. It could indeed happen before Christ-mas. The Bundesbank experts said it would also help if Italy, which has been operating within a much narrower marone, could reduce the margin to the normal 2% per cent. This would leave Spain — and perhaps Britain — operating wider margins, which would be technically easier to handle.

Thus the crucial conditions

are a reduction of the British inflation rate - which, correctly measured is only 1 to nity average - and the choice of a time when the exchange rate is sustainable. Bundesbank advisers see the key not so much in particular numeri-cal rates, but in a conjuncture where interest rates can come down with safety. Thus, once it is clear that 15 per cent rates have done their work and really look like over-kill, EMS entry would be a way of underpinning sterling at a smaller interest rate differential than now exists.

The Bundesbank is suspicious of the attention paid to M0, which "is a co-incident indicator... of nominal GDP but gives little early warning of inflationary pressures to come." These words are, however, not from the Bundesbank but from Nigel Lawson's own Mansion House speech which suggests a communica tion difficulty across the North Sea. The Mansion House speech so far from "saying nothing" is worth reading in detail. If the Chancellor were to remember that he was originaîly a logician, he might do more to instruct the Treasury about the difference between a cause of inflation and an indi-cator. In that case, he might please the Bundesbank by paying more attention to liquidity and credit without going back to targeting the old Ma. But it was still immensely better than what is normally said on such occasions.

LETTERS

Difficult to improve on oil exploration licensing

From Mr Robert McKee.
Sir, Your editorial "Protectionism and UK oil" (October 17) advocated the auctioning of all exploration licences. Our experience suggests this would

be a mistake.
Under the present system of discretionary awards, govern-ment can ensure that maximent can ensure that maximum effort is expended on each new licence by selecting the company or group of companies prepared to guarantee the fullest and perhaps the most creative work pro-

Government is also better make the highest bi able to set and demand high standards in technical competence, track-record, safety and all the other important criteria it sets for potential licensees.

A further consideration is the basis of who we make the highest bi make the highest b

From Mr Eric Heaton.
Sir, "Keeping Sid in the picture" (Lombard, October 6), highlights the undesirability of the Department of Trade and

Industry's consultative docu-

ment on the idea that small shareholders need not receive

a complete report and accounts and could opt for an abbreviated version. It seems that such a move is justified partly on the grounds that it would cost companies far less money is statistical partly of the statistics.

to distribute pieces of A4 paper than bulky annual accounts. However, the Post Office is

planning to increase the cost of carrying A4-size company-accounts by as much as 33 per cent. Royal Mail Letters has

announced its intention to sur-

from the date of the next tariff increase. It is believed the sur-

charge will be in addition to

Investors' company accounts

the amount of cash a company has for exploration. This is finite, so cash spent in the auction process is cash that will not be spent on exploring the

Whichever way you look at it, the present system as prac-tised by successive govern-ments appears to be the most It is questionable whether

Britain's oil and gas resources would have been developed so successfully and so swiftly if licences had been awarded on the basis of who was able to make the highest bid. Robert McKee, Chairman and Managing

annual increases in tariff.

These surcharges are part of

a campaign by Royal Mail Letters to encourage clients to post mail in sizes more easily handled by the Post Office. If Royal Mail Letters really pre-fers not to handle larger envel

lopes, the simplest thing would be to free large items from the letter monopoly altogether

This would give users a choice and help Royal Mail Letters divert to private carriers traffic

it cannot, or prefers not, to

Social democracy triumphant

From Mr Ian Holliday.

Sir, If Francis Fukuyama is wrong to proclaim the End of History, it is not for the reasons given by Ian Davidson in his article "News of the End of History fails to reach Europe" (FT, October 19).

The conversion of eastern

The conversion of eastern Europe to social democratic principles which we are witnessing today mirrors the conversion of western Europe to the same principles half a cen-tury ago. Now that the East has come in from the cold, political debate is being conducted in the middle of a continuum of political ideas stretching from liberalism to socialism. Rarely is it located

at either pole.
Thus, debate between, say,
Jacques Delors and Margaret
Thatcher concerns local read-

ings of social democracy, not

fundamental challenges to it. it is not liberalism, but social democracy which is trimm-phant, and contemporary debate is, in a sense, a series of foot notes to, or elaborations on, that triumph.

Whether this will prove to be the End of History is open to question. However, what is ear is that we have reached a point at which a single cluster of political ideas is predomi-nant and secure from tradi-tional challenges. To restart History requires the articula tion of an alternative continuum of ideas stretched between poles which express new conceptions of the human condition. Ian Holliday,

Channel Tunnel Research Unit, University of Canterbury

Banks' deal with South Africa throws lifeline to apartheid

From Mr John Denham.
Sir, The many organisations
- and the many individuals who attempted to prevail on the banks not to reschedule their South African loans received a fairly standard response. It ran something like this: "We want to see the end of apartheid (of course), but we will do a deal with South

will do a deal with South
Africa because we want to get
our shareholders money back
as quickly as possible."

This deal triumphantly
revealed by South Africa's
Reserve Bank Governor Stals
gives the lie to this disingentous argument. Under the in days of greater investor protection, the Royal Mail's problems seem a poor reason for encouraging individual rescheduling arrangement, the average repayment will be under \$500m a year and will be carefully phased to give South Africa the maximum relief when other debts fall due in shareholders to settle for less than a full set of company

the next two years. Yet evidence presented to United Nations hearings in September showed that South Africa could generate enough foreign exchange to repay at least \$1.65bn a year on the "frozen"

If NatWest, Barclays and other banks sign the deal, they will have extended a \$1.2bn-ayear lifeline to apartheid for the purchase of arms, oil and other strategic imports.

The terms of the last rescheduling deal in 1987 has South Africa's defence expenditure. The latest deal gives South Africa another breathing space and reduces the growing economic pressure for change. John Denham, War on Want Compaigns Ltd.,

No polarisation between the visible and the invisible exports

From Mr Richard Mason. Sir, Peter Brighton (Letters, October 17) is less than fair to Simon Holberton ("Services have been success story of the 1980s," October 12). Mr Holberton clearly defined

his use of the term "services" to include interest, profits and dividends. He went on to explain why there will be a decline this year in net income from these sources as the cost of funding the large visible

trade deficit bites hard. It would have been clearer had Mr Holberton used the term "invisibles" — and these are a

accounts. Eric Heaton.

7 Beechnood Grove, Shipley, West Yorkshire

The private sector has turned in an invisibles surplus in almost every year since records began in 1794. For the past four years, according to figures published by the OECD, Britain has enjoyed the largest surplus of any country from current invisible transac-

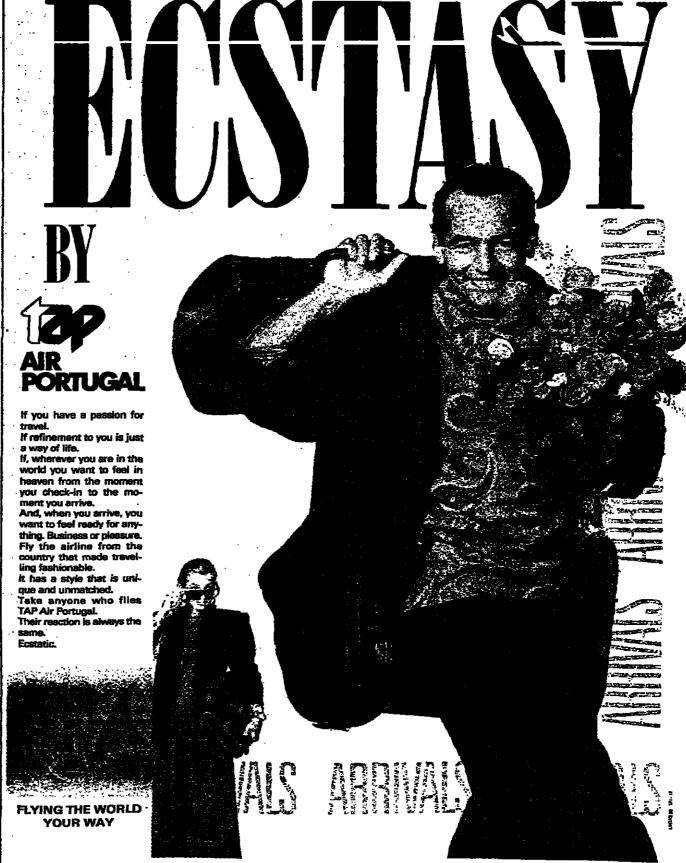
tions.

Lest I invite criticism as an interested party, I will add that the British Invisible Exports Council (BIEC) also believes that it would be folly to rely solely on invisibles. We are on record as giving evidence to the same House of Lords Committee referred to in the mittee referred to in the article, and elsewhere, as advocating the need for a strong

complementary visible trade

Any polarisation in public perceptions of relationships between services and goods, between "surplus" invisibles and "deficit" visibles, would be unhelpful. It would also divert attention from the essential task of correcting the imbalance in our balance of trade. Richard Mason, Executive Director,

39 King Street, EC2





Janet Bush on Wall Street

Vertically integrated problems

APPARENTLY, some people

never learn. The first rumours that an The first rumours that an arbitrageur "arb" was in trouble emerged last Tuesday and centred – probably unfairly – on Mr George Kellner who acknowledges he has lost a packet on his substantial holding of UAL shares, but no more than other arbs.

than other arbs.
What is more startling is that Mr Kellner (and lots of his fellow arbs) also took a bath on October 19 1987, because of losses on substantial holdings of Allegis. That, of course, was the

name taken by the parent com-pany of United Airlines for a brief while until ridicule and a revolt by investors forced the board to readopt the name

UAL.
The ingredients of the latest sell-off to rock the equity mar-ket were quite different from those which caused the melt-

down of 1987.
On October 13, there was a frantic rush by arbs to get out of outrageously overpriced takeover stocks. In 1987, money surged out of everything on the orders of quantative computer models in portfolio insur-

ance strategies.
But whatever the combustion materials, you just get this queasy feeling that some things never change and nobody ever learns. By the end of last week, 120 points of the 190-point plunge had already

been recouped. Since the 1987 Crash, there has been endless debate about how the market structure can be made safer and more servicable to the investment commu-nity in the broadest sense. There has been fiddling with margins, with regulatory oversight, with crisis management but what has actually

In a wild 20-minute period last Tuesday, stock index arbi-trage plays interlinked the futures and stock market in death-defying swings which took the Dow Jones Industrial Average 40 points lower in 10 minutes and then 40 points higher in the next.

journalists regularly call this kind of volatility a "roller coaster ride". It's a cheap thrill which leaves you dishevelled, nauseous and drops you off exactly where you started (unless you are a small investor who panics fatally and throws himself out of the car during the ride).

Programme trading never stopped and will not while it is in the financial interest of investment banks, comme banks and exchanges them-selves to pay homage to the institutional investor.

The fundamental tension in the coexistence of a retail and institutional market within one system, which is much more relevant than programme

trading itself, remains.

Mr Laszlo Birinyi, formerly the leading equity analyst at Salomon Brothers and now running his own consultancy, says: "This system was never intended to handle this huge amount of stress. It is like going to the corner butcher on a Thursday and asking him to provide 50lb of beef for a huge

party on Friday night."
The perennial obsession with earnings over any other consideration (like the future) has meant a management style in many Wall Street companies which is often alarmingly short-term.

When one source of earnings slumps, shut the department down and pour resources into the next hot area. Forget about business cycles, forget about a well-balanced diversified spread of business and therefore risk.
After the 1987 Crash, com-

mission revenues from securities trading slumped. Securities houses uniformly cantered into investment banking and highly profitable it was too - for a while.

Now they face a real crisis in the junk bond market and perhaps even a stubborn unwillingness among commercial banks to provide financing. What now? Fire the mergers and acquisition boys and reopen the mortgage securities

On the morning of the mini-Crash of October 13, a top executive at Salomon Brothers talked enthusiastically about prospects for the firm's new vertically integrated high

yield department. Less than seven hours later, news that financing for the UAL buy-out had fallen through hit the news tickers. Every issue whose inflated value was based on hopes of being taken over and enjoying the "financial discipline" of enormous debts into the next decade, nosedived and the junk

bond market was under water. Will vertical integration survive that? Will people ever Thatcher in unprecedented challenge over declaration on South Africa

UK at odds with Commonwealth

By Robert Mauthner and Roger Matthews in Kuala Lumpur

THE SHARP division between Britain and the rest of the Commonwealth over South Africa was underlined last night when Mrs Margaret Thatcher, the British Prime Minister, distanced herself from key sections in the official communique on South

In an unprecedented move which irritated other conference delegates. Mrs Thatcher and Mr John Major, her Foreign Secretary, issued a statement elaborating on Britain's differences with the rest of the

Commonwealth.
Although Commonwealth leaders yesterday unanimously committed themselves to "the total eradication" of apartheid, Britain remained isolated on its opposition to the use of sanctions to attain that goal. A declaration entitled "South Africa: the way ahead," adopted by the heads of gov-ernment at their northern Malaysian island retreat of Langkawi, contained four important paragraphs which The South African Government has given approval for the first African National Congress rally in 29 years. The deci-sion was made as Commonwealth leaders were differing over policy towards South Africa. The move is likely to reinforce the British view that Pretoria is initiating changes. Page 2

Britain refused to endorse. Some other sections of the joint declaration were also challenged by the British state-ment. Britain's explanation for this unusual step was that the Prime Minister wanted to set out her position in greater

Surprisingly, given Mrs
Thatcher's views on the subject, Britain had put its name
to a paragraph in the Commonwealth Declaration saying that the heads of government agreed "that the only justification for sanctions against South Africa was the pressure they created for fundamental political change." The official British position has always been that sanctions have not been instrumental in bringing about political change.

In the next paragraph, Britain refused to support a

statement, agreed by all other members, which said the Commonwealth "acknowledged that the impact of sanctions had begun to influence the pol-icies of the South African

regime."

Perhaps to sort out the conremaps to sort out the con-fusion caused by these appar-ent contradictions, Mrs Thatcher's and Mr Major's post-Langkawi statement stated that sanctions contrib-uted to "poverty and misery" in South Africa, whereas Britain's efforts were directed to relieving such poverty and misery throughout Africa.

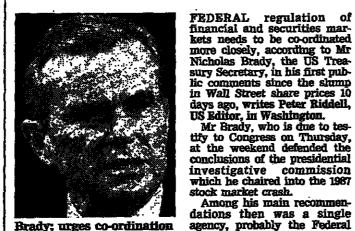
Mrs Thatcher also supported a paragraph in the joint decla-ration which said that "this was not the time to consider any relaxation of existing sanc-tions and pressures" and that all existing sanctions and mea-sures should be maintained pending evidence of clear and irreversible change in South

The remaining three sections of the joint declaration to which Britain refused to subscribe dealt with the proposal by Mr Bob Hawke, the Austra-lian Prime Minister. They call for new financial sanctions, the establishment of an indepen-dent agency to review Pre-toria's financial links, and the continuation of the special For-eign Ministers Committee on sanctions, which Britain has always refused to join.

Mr Major saw the main sig-nificance of the joint declara-tion to its recognition that sig-

tion in its recognition that sig-nificant changes in South Africa appeared to be under way. He said a new addition to the declaration was that the Commonwealth as a whole had accepted that the purpose of sanctions was not punitive, but to bring Pretoria to the negotiating table with black South African leaders.
Why Britain stood alone

Brady urges closer markets co-ordination



FEDERAL regulation of financial and securities mar-kets needs to be co-ordinated more closely, according to Mr Nicholas Brady, the US Trea-sury Secretary, in his first pub-lic comments since the slump in Wall Street share prices 10 days ago, writes Peter Riddell, US Editor, in Washington.

Mr Brady, who is due to tes-

tify to Congress on Thursday, at the weekend defended the conclusions of the presidential investigative commission which he chaired into the 1987 stock market crash. Among his main recommen-

tion of all financial markets. Mr Brady says his report remains "a guide to what happened then and what you might need to do now.

The more progress we can make towards bringing regulation into one place, or to bring it into a high degree of co-ordination, the better off we're

Reserve, to co-ordinate regula-

going to be at it," he argued. But this proposal – based on the view that securities and futures markets increasingly function as one - has so far been successfully opposed by the futures markets. Mr Brady, who closely moniweek ago, said senior Adminis-tration officials had learned from the 1987 crash, were bet-ter prepared to co-ordinate their actions this time and had more sophisticated means of monitoring markets.

Asked whether the recent market gyrations strengthened the need for reform proposals, Mr Brady said the Treasury did not yet have "the information to come to the conclusion that a lot of changes absolutely have to be made. We're getting the reports in now on the sta-tistics and we'll be looking at them and coming to some sort of conclusion before the [con-

British economic policy faces fresh test

By Patrick Harverson, Economics Staff, in London

THE UK GOVERNMENT'S commitment to using high interest rates to fight inflation and support a weak sterling will be tested to the full tomorrow when the September trade figures are released.

News of Britain's trade position will come on a day when the Government faces a House of Commons debate on its handling of the economy. The opposition Labour Party is likely to exploit differences over monetary policy between Mr Nigel Lawson, Chancellor of the Exchequer, and Mrs Margaret Thatcher, the Prime Minister, backed by her per-sonal economic adviser, Sir

Alan Walters.
City of London analysis have warned that a repeat of the

Hydro, Norway's largest pub-

licly quoted company. Norsk Hydro, three Finnish

companies – Wartsila, Imatra Voima and Neste Oy – and Conoco Norway, the Norwe-gian unit of US-based Conoco,

are trying to reach a joint

Mr Pauli Jumppanen, a Wartsila executive, said: "The

Soviet Union has given to understand that its goal is chiefly to acquire the offshore

technology it needs through

Curiously, the spelling cham-

pionship is booming at a time when there is a flood of calls

for a reform and a simplifica-

tion of French spelling. Everybody knows that

French spelling and grammar

are extremely complex, and in

some respects quite illogical. Many people argue that the complexity and the illogicality

are serious handicaps to the

The statue of Descartes is

one of six in the Grand Amphi-

theatre but he had nothing to

do with the writing of the

70 letadbul Jessoy 70 Johanno 79 Les Pain 69 Leeds 89 Lisbon 32 Lecamo

education process.

Continued from Page 1

surprise £2bn (\$3.1bn) August deficit could lead to sharp downturn in London share prices and send sterling into freefall. The Government would be likely to order the Bank of England to support the pound if the trade data sparked off heavy selling of sterling. However, there is no guaran-

tee that intervention would stem the currency's decline. The Bank spent an estimated \$4bn in late September and early October in a vain attempt to stop the pound's slide. The pound was selling for more than DM3.06 before the August trade data was released on Sep-tember 27. It subsequently tumbled through the crucial DM3 barrier and by last Fri-

Soviets request Western gas expertise

cases it will be a question of

large compensation projects where the investments are

repaid through long-term oil

and gas deliveries, or joint ven-

tures with Soviet organisa-

He refused to give details of discussions between the con-sortium and the Soviet Union

but suggested that it would be

some time before a concrete

Norsk Hydro has been in talks with the Soviets for a

Whether the complexity of

French grammar has any bearing on educational achieve-

ment may be debatable. Never-

theless, the dilemma of how to

raise the performance of the

French school system is at the forefront of political debate in

The debate comes at a time

when the Government is

attempting to double the pro-

portion of children reaching the Baccalaureat, the presti-

gious school-leaving examina-

deal could be signed.

French spellbound by language test

French rule-book.

France.

WORLDWIDE WEATHER

ity study includes Norsk Western investments. In such

If Bank intervention failed to hold up the pound, the Gov-ernment would face a stark choice. Either interest rates per cent to stave off a major fall in sterling, or the pound would have to be allowed to find its own level on the cur-

rency markets. Mr Lawson said at the Conservative Party conference two weeks ago that he would not allow the pound to be deval-ued. Since then both the Chancellor and Mrs Thatcher have said interest rates may have to go higher to combat domestic inflation and provide support

for sterling.

Another rise in the cost of borrowing would be a serious blow to business confidence.

long time on a number of pro-

jects ranging from minerals mining to offshore develop-

ments. Mr Svein Breivik, head of Hydro's international divi-

sion, said, "We are interested to see if there is a basis for feasible Soviet activity in the

[Soviet] Barents Sea."
Mr Mikhail Gorhachev, the

Soviet President, is to visit Fin-

land this week, and it being

ment for the development of a

Soviet offshore gas field may

tion, from 40 per cent to 80 per

cent by the end of the century.

The problem is most acute for

In 1979, the Government

claimed there were no longer

any illiterates in France. In the

past 10 years, however, there has been a much greater realis-

ation throughout Europe that

there subsists a functional illit-

eracy which is less absolute

than complete analphabetism.

culties in either reading or

which involves real diffi-

those least educated.

sted that a joint agree

City of London analysts fear that such a move could push the UK economy to the brink of recession.

The Confederation of British Industry's quarterly industrial trends survey, to be published tomorrow, is expected to confirm that the output expectations and investment intentions of UK companies have already been seriously damaged by high interest rates.

There is no doubt that the London financial markets will open this morning in apprehensive mood. Economists at the big London securities houses have forecast an improvement in the current count position in September the consensus is for a deficit of about £1.6bn.

Failure of UAL buy-out

'a set-back'

Continued from Page 1

However, it is likely to try to revive its efforts to acquire a direct stake in Sabena, the Bel-

gian airline. BA and KLM announced last summer plans to buy a 20 per cent stake each in Sahena.

The Sabena negotiations appear to have stalled while both BA and KLM, which has bought a stake in Northwest

Airlines of the US, have been

embroiled in their respective US manoeuvres. Janet Bush in New York writes: UAL said yesterday that it could not confirm that management representatives and officials of the pilots' and flight attendants unions had met at the weekend as

Ms Patricia Friend, president of the flight attendants' union, was quoted at the weekend as saying that the three groups had put the finishing touches to a revised buy-out proposal which would be presented to the board today.

Nato due to launch study

Continued from Page 1

writing or both.

nuclear posture. The CFE talks aim at establishing an Rast-West balance in heavy land weaponry and possibly air-craft, at levels below current

Nato strength. Nato officials said modernisation already under way in nuclear artillery weapons, with a new 155m howitzer shell about to be introduced with an extended range of 30km, could enable the alliance to cut up to half its stockpile of about 1,600 nuclear artillery warheads. However, British officials

said Nato should "play its hand carefully with amount-ing cuts, and should maximise pressure on the Soviet Union to reduce its own, larger stockpiles. There is disagreement between the US and some allies over the need for battle-field nuclear artillery at all.

Ministers are expected to be brought up to date on US progress in choosing a system to replace the Lance missile, deployed in Europe by the US and allied armies. A decision by the Pentagon is expected by the end of this year.

Small is not so beautiful

One part of the UK equity market with a strong whiff of 1987 at present is the small companies sector. As in 1987, the prices of many smaller sincks have suffered exagger-ated mark-downs. As before, too, liquidity has vanished. But even before the past week's even before the past week's upheavals the small company effect had apparently gone into reverse. In previous years, small companies had tended to outperform hig ones in market terms. But already by the end of September the picture was quite different: the capital gain on Unlisted Securities Market on Unlisted Securities Market stocks had averaged 13 per cent against 18 per cent for the Hoare Govett small companies index – which takes in the smaller main market stocks – and 28 per cent for the

- and 28 per cent for the FT-SE proper.

It is natural to suppose that this is in line with the earnings fundamentals. Anecdotally, the impression is that more small companies have been issuing profit warnings of late than large ones. Gearing among small companies may perhaps be higher. The sector must have an above average expohave an above-average exposure to the UK economy. It is also weighted towards some danger areas; 12 per cent of the USM by value consists of property companies, compared with 3 per cent for the market as a whole.

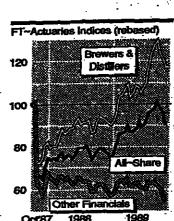
whole.

More generally, it might be expected that in the course of an extraordinarily long upturn in the economy small companies will have prospered in niches overlooked by bigger competitors. In the downturn the big companies will be a companies may devote the big companies may devote the big companies. the big companies may devote more attention to smaller markets, so that - in Lord Weinstock's phrase - a niche becomes a tomb. But we do not met here the countries data for yet have the earnings data to substantiate that. And it is worth recalling that in the period 1979-82, dividend growth from small companies very nearly matched the market

For funds invested in small companies, the best response at present seems to be fatalism. It has been suggested before now that part of the rea-son for the undervaluation of small companies is their lack of liquidity. If the fundamentals are right, the shares will bounce back. If not, investors are stuck with them anyway.

Sectors

Eat, drink and be merry, for tomorrow the market plunges. As London's fund managers awoke to the aftermath of the hurricane two years ago, those



blessed with 20/20 foresight would have opted to concen-trate their holdings on literally irate their holdings on husally liquid assets. Brewing and distilling has been file best performing sector since October 15 1987, showing a near 18 per cent rise against an 8 per cent fall in the All-Share. Well behind, but still in second place has been the food manu-

place, has been the food manufacturing sector, which has risen by just under 8 per cent.

Food and drink have obvious defensive qualities and the latter sector has received a further fillip from the turnround in the fortunes of Guinness, which is the second best per-forming Footsie stock over the period (Scottish & Newcastle is fourth). However the conglom-erate sector's 5.9 per cent rise — the fifth best — seems to show that some companies, at least, can diversity better than investors who just attempt to replicate the index. This holds good regardless of Sir James Goldsmith's onslaught on BAT, which is included in the mis-

cellaneous sector.

Even the most prescient fund managers would have suf-fered in one sense. The worst performing sector of all since before the crash — other finan-cials — includes the shares of independent fund management groups themselves. That secter's 46 per cent decline, how-(down 43 per cent), where profits have been squeezed by a combination of rising imports and a shaky retail market. And while the poor record of stores (down 32 per cent) might have been predictable, if might have been harder to pick out pub-lishing and printing (down 29) per cent) as a dog, given the talk that prevailed in 1987 of the publishing revolution. Although it has recovered recently, Maxwell Communica-

tions is still the worst perform-

ing Footsie stock since the hur-

ricane, with Reed International not far behind. Determined contrarians will doubtless be piling into printing, stores and publishing as fast as they can.

Green effect

One does not have to vote for the Green party or manage an ethical fund to appreciate that growing environmental consciousness will have an effect on businesses and invest-ment decisions in the 1990s. It is important to separate the green consumer effect, in which purchasers switch to healthier or more ideologically healthier or more ideologically sound products, from the impact of governmental restric-tions designed to cope with issues such as global warming. The former is the conse-quence of rising incomes, as wealthy consumers look to

improve the quality of their lives. Green consumers will inevitably be prone to fads and scares, as the egg industry has discovered. This may require, more than anything, the ability of manufacturers and retailers of manniacturers and retaters to be quick in responding to trends. Cynicism will develop as the more spurious claims for environmentally sound products are unmasked; but a company which can establish a genuine reputation for greenness will have an advantage, as Rody Shop has demonstrated. as Body Shop has demonstrated. The impact of environmental

policies on individual industry sectors will be wildly diver-gent, as the latest green circu-lars from Phillips & Drew and Paribas suggest. The chemicals industry, which has a terrible public image, will face rising costs and a constant pressure to produce new products. And environmental consciousness can only be bad news for insur-ers in the long run. But building materials companies may benefit as pressure to prevent the opening of new quarries increases the value of old ones. And the construction industry will gain from an upsurge in expenditure on infrastructure

buildings and projects. The rewards for the right companies could be substantial. According to Paribas, the 10 leading economies spent 0.7 per cent of their gross national product on environmental protection in 1987. Assuming an increase to 1.5 per cent (the European Community target, but well below the current level achieved by the Netherlands) by 2000, Paribas reckons the total European environmental market will then be

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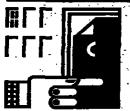
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SECTION III

FINANCIAL TIMES



As more companies apply information technology, there is a growing awareness among senior

managers of the need to develop a clearer overall strategy for the more effective use of computerised equipment, as Della Bradshaw reports here.

Big impetus for change

INFORMATION technology photocopying machine will undoubtedly provide the biggest single impetus for are widespread, and senior change in the office environment between now and the year 2000. It will change the kind of work we do and how we do it. Even where we work

will come under review.

Most companies now realise that the way information is manipulated is likely to be one of the most effective tools in making their businesses more competitive, and to do that they need information technology equipment. Badly installed, electronic gadgets can prove costly, ineffective and even dangerous - and result in unhappy, discouraged

The sea change in company attitudes has largely been brought about by the personal computer (PC). Until the early 1980s, most computers were kept behind locked doors in key rooms with people who spoke a language incomprehensible to the average office worker. Out of the room smanated, on a weekly or monthly basis, pay slips or document confirmation forms. When anything went erong, it was the computer's said. Then, the most advanced office technology was the electric typewriter and the rented

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managers have long ago stopped boasting that they have "never touched a key-board." By the end of the 1980s almost one-in-three office workers will have a personal computer on their desk, predict

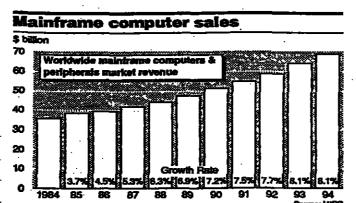
consultants Butler Cox, and that will grow rapidly to one per desk in the mid-1990s. The challenge for companies now, argue equipment manufacturers, is to accept the need for office technology, and make it work for them. In particular, companies must develop an

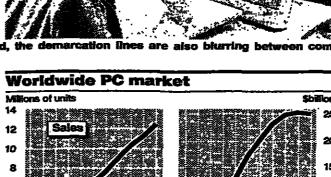
overall strategy, which has been sadly lacking in the past. "The problem is that tech-nology doesn't appear in the office overnight. You don't go home one evening and discover when you get back that all the typewriters have been replaced by word processors," says Mr Paul Evans, group manager for networks marketing at computer manufacturer Digital Equipment. "Because it arrives a bit at a time, it is difficult to develop an overall strategy."

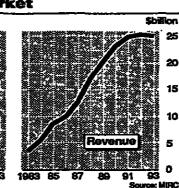
As a result, he believes that the ad hec growth in office technology equipment has left managers confused; both about the technology itself and its

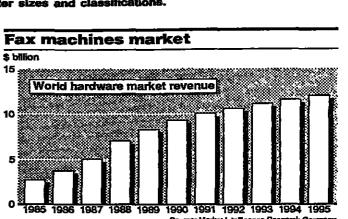












Technology in the Office

91

implications for the business But if they are to develop a technology strategy to follow the company's business plan in the future, they have to "run

"It's not too difficult to see what companies like Digital Equipment and IBM will be doing in the next five years," says Mr Evans. "We won't have infra-red keyboards and laser networks by then, for

example."
So, what office technology will be installed in the next five years, and what facilities will companies need to take advantage of it? Perhaps the most significant

development will be in the area of desk-top PCs or workstations. They will become more powerful and much quicker to use, and considerably cheaper to buy. Even the traditional dumb terminal, connected to the corporate mainframe and generally used for clerical tasks, is likely to be super-ceeded by the workstation with its individual disk storage sys-tem. In addition, powerful systems will appear on the desks of staff formerly loath to use the equipment - the chairman or managing director, for example. One of the biggest growth area in workstations

looks set to be in executive information systems (EIS), which allow company bosses to dip into the corporate database and extract and analyse key

Another potential growth area is desk-top publishing, where documents are drawn out on a computer screen and printed on a laser printer. Desktop publishing systems are already used for printing

☐ IN THIS SURVEY: tacilities management; copiers, page 2; computers, telephone systems, page 3; word processing systems; document processing, page 4; facsimile systems, electronic mail, page 5; computer-related furniture systems, video-conference facilities, page 6; moving to new office premises; mobile offices and working from home, page 7.

in-house newsletters and technical documentation, but as the technology develops - particularly in colour printing they could even be used for printing the office stationery.

The spread in workstations will bring numerous headaches for the office planners. More and more companies will realise that they cannot simply buy a couple of PCs and drop them onto desks. Today's per-sonal computer with a colour screen, for example, requires up to three times as much electrical power as a data terminal with a monochrome monitor. And a laser printer needs up to

dot matrix predecessor, says Butler Cox, in its report, Information Technology and Buildequipment will require a simi-

five times as much power as its

lar leap in power consumption. Mr Roger Camrass of Butler Cox relates the anecdote of one company in the City of London which discovered it would have to move buildings in

order to support the number of computer terminals it needed. It simply did not have room to install the "mini power station" it needed in its basement. In the future that will

become the norm rather than the exception. The electric power requirements of office equipment will rise in the early 1990s to be four times what it is today. And as more of the vital company informa-tion is held on computer, and more offices become dependent on its use, there will be a growing need to provide a back-up power source in case of mains power failure.

As more power is used, so the amount of heat dissipated goes up as well. And that means the need for more air conditioning and a more sensitive heat control. And the forward planning does not end there. Perhaps even more important is the cabling needed to install these desktop machines - "most people are just trying to deal with the cabling which has been produced by the last explosive growth in terminals," reports Mr Camrass. "Now they are faced with this prospect of a mainframe on a desk."

Such a technological animal will require powerful wiring ms, argues Mr Camrass. Although laptop computers and mobile phones can operate on radio and infra-red frequencies, the capacity needed to send video images from desk-top to desktop could not be dealt with in this way. Instead it will need high capacity broadband wiring. And then there is still the main com-

The bad news for the office developer is that up to ten per cent of the space in modern buildings could be required for technology - ducts for computer or telephone wiring, main computer rooms which are bomb-proof and specially cooled, telephone exchange facilities, underfloor cabling and so on This poses particular problems for companies building speculatively - when they not know who will occupy the building before construc-

tion work begins. If building companies take the need for specially allocated 'information technology' space into account, the price per square foot of office space will inevitably shoot up. If not, companies moving into the buildings could find themselves facing enormous bills – and disruption – for installing ducts and wiring that in what is supposed to be a modern

Professor Franklin Becker, of Cornell University, believes that in the US, building contractors have generally been more responsive than in Europe to the needs of business: "On the whole, the US market has been more respon-sive, but that is because US clients have been more aggressive," says Prof.Becker. They insist that when buildings are put up they are suitable for their requirements."

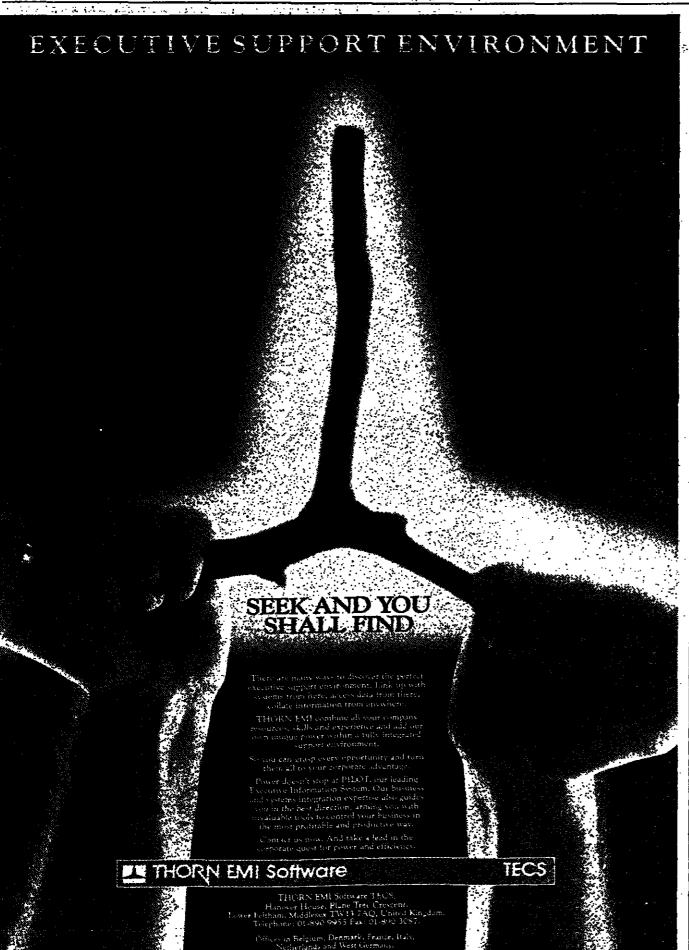
Top executives in the US are well aware of the problems, according to recent research by

the US furniture manufacturer Steelcase. The report showed that 77 per cent of senior executives and 87 per cent of interior designers anticipate that telecommunications and computer needs will impact heavily on facilities design in the future, (see page 2). They ranked it even more important than space costs, health and safety legislation and costs of

office furniture and equipment. In the UK, the concern of chief executives is less clearly defined. In a report conducted by the National Business Equipment Survey, researchers demonstrated that although the chief executive might be happy in his office environment, his or her staff may not be so content. The survey revealed that five times as many office workers were dissatisfied with the function of

their offices as their chairman. As company executives become increasingly aware that a pleasant and effective office environment will be a factor in helping them main-tain their skilled staff into the 1990s, the picture could change quite rapidly.

Butler Cax, London, tel 831 0101; National Business Equip-ment Survey, London, tel. 483





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pets and polish the desks. Office cleaning is one of the many tasks that companies now pay outside agencies to carry out for them. Catering, security, vending machines even plant-watering are jobs trusted to outside companies.

Businesses are turning to third parties to take on the burden of maintaining office facilities

And as electronic office equipment - computers, telephone exchanges, copiers, heat-ing and lighting systems become ever more complicated and costly to install and maintain, a growing number of com-panies are turning to third parties to take the weight off their shoulders in this area as well

The value of these facilities management (FM) contracts for computer installations will be worth £400m this year in More companies are seeking facilities management contracts, says Della Bradshaw

Ways to cut costs and boost efficiency

the UK alone. Three years ago the figure was negligible. And there are plenty of good reasons why companies choose to tread the FM route rather than go it alone.

To begin with, a sprocket manufacturing company wants to design, make and sell sprockets. It does not want to become a computer installation company, wiring personal com-puters into its offices and workstations into its design centre and loading inventory control software in the factory mainframe.

been the skills shortage. With companies finding it increas-ingly difficult to employ suit-ably-qualified staff, they are passing the problem on to FM companies instead, says Mr Peter Falconer, marketing director of the facilities management division of the Hoskyns group, of London. Mr Falconer believes compa-

A more recent factor has

nies such as Hoskyns find it easier to keep skilled staff because they offer them more "exciting" projects. In companies the more interesting tasks - ungrading the software, or dealing with the computer when it goes down, for example - are usually relatively rare events. Most of the time is

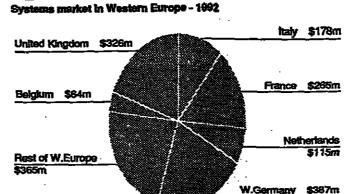
spent doing routine maintenance work or waiting for something to go wrong. Upgrading software and dealing with crises are their bread and butter work of FM computer companies. Facilities management com-

panies are proving particularly popular in the energy manage-ment field, where computer-based controllers monitor heating, ventilation and air condi-tioning and achieve the desired conditions with the minimum energy input. That is because they can alleviate one of the most frequent problems associated with such systems - how

to interpret the data that is fed to the operator by the sensors. This control can often be done be done remotely - as it can with telephone and computer systems - by connecting the sensors to a main control centre over the telephone line.

Perhaps more importantly companies are turning to FM because it can save them money. Firstly, it allows them to do away with a fixed cost (the new telephone exchange, computer system or air conditioning system). Instead they

Office building controls & management



Total \$1,700 million

Source: Frost & Sullivent

environmental controls

brick-deep when it comes to an office building, but a new report anticipates an increas-ing number of "buildings with brains - or intelligent build-ings" - will dot the skylines of London, Paris and Bonn, served by a \$1.7bn European market linking-up telecommu-nication and various kinds of

The report," by Frost and Sullivan, the market research group, says that the incorporation of an integrated system of telecommunications, office automation and building services management is now "on

the horizon." Four main prod-ucts groups are identified: conventional and advanced

telephone: 01-730-3343.

spread the cost over several years - three, five or seven,

And because new information technology equipment seems to appear on the market even more frequently than higher interest rates, opting for FM contracts can re-assure companies that they can drop out of the IT race, and let a contract person keep in touch on their behalf.

Secondly, they use extra services only when necessary they do not have the expense of installing the equipment to deal with the peaks. So, if a company making Christmas decorations needs a higher level of computing power to print invoices in the run up to the festive season, it can negotiate to do that with the FM company. It will not need to carry the expense of the extra computing load all year round.

Then there are the savings accrued through the economy of scale in which the FM companies deal, in both equipment and staff. They can, for exam-ple, afford to buy mainframe computers and divide them up so that different parts are used for different clients. They can also employ groups of staff with a specific expertise which a number of clients may need. That said, signing an FM contract is not cheap. Take the expanding Lewis's group of department stores as an example. It has employed Electronic

puting facilities contracts for seven years, plus a run-in period of five months. For facilities to run its twelve stores and associated administrative centres it will pay £10m over the lifetime of the contract. Included in that are certain software upgrades,

but any major investment and

the contract would have to be

Data Systems (EDS) to run its telecommunications and com-

re-negotiated. The Lewis's contract typifies one of the main reasons why companies opt for FM - they are at a crossroads in their information technology handling. Lewis's used to do its data processing on the main-frame belonging to British Sugar (then its parent com-

pany).
When the company was bought out it was faced with the dilemma of whether to install its own computer or go for another option, such as FM. As its business plan included expanding the number of its stores (initially from 10 to 12),

It was decided to opt for an FM company that could support it in that aim.

Despite the obvious advan-tages. FM is still an emotive issue. In particular, there are two ideas that companies have to come to terms with before they out for FM, says Mr David. Andrews, partner in charge of the FM arm of Anderson Consulting.

The value of facilities management contracts for computer systems in the UK alone is worth £400m

The first is the belief that information technology is too important to the company to leave it in the hands of outsiders. The second, that the information is too valuable to let outsiders have access to it.

Mr Andrews counterargues that the data security employed by most companies is well below that enforced by FM companies.
The Anderson group, for

example has at least one data centre which could withstand a terrorist attack.
And, because there is a con-

tract between the two companies, there are grounds for redress if data is lost or stolen. If a hapless employee accidentally wipes a computer data-base clean there is little that can be done about it.

Facilities managers' growing role

IN the US, 90 per cent of top executives report some form of facilities management (FM) in their organisations, according to the latest Steelcase Office Environment Index.

Around 63 per cent of these executives view FM as a form of asset management, but only 51 per cent of facilities managers think their senior management would agree with that point of view, writes Michael

The report shows that senior managers may not be aware of how much responsibility is shouldered by facilities managers — almost three-quarters of these managers claim they have "a great deal" or "some" control over office automation installation, yet only 47 of top executives think so.

Facilities managers mainly see their responsibilities as including space-planning, relocation and renovation of facilities and long-range planning.

All managers agree, however; on the issues which will have the greatest impact on facilities design in the next five years: all groups put telecommunication and computer

Space-costs come second; health and safety regulations come third; costs of office furniture and equipment, fourth; while the emergence of the intelligent building came fifth. Worker desire for privacy was rated

the sixth issue. The survey shows that 78 per cent of office workers use a computer - and computer-usage amounts to four hours of

the average workday. Among the points identified by workers as being "very important" to productivity were: ☐ Proper lighting — 92 per cent. ☐ Comfortable heating and air-conditioning

- 81 per cent. Adjustable and comfortable seating

73 per cent. ☐ Enough worksurface area to spread out or display work - 72 per cent.
☐ Adequate storage and file space - 65

Sufficient privacy and low levels of noise - 59 per cent. ☐ Attractive working areas - 57 per cent.

Offices that think: \$1.7bn market for

BEAUTY may be be only

controls; energy manag ing management systems. There has been an acceler-

ating trend to integrate such areas as heating, ventilation and air-conditioning, fire alarms and access controls. This, the report concludes, will boost the market (worth \$1.26bn, two years ago) by an average of 6.2 per cent a year to \$1,7bn by 1992,

*Frost & Sullivan, London.

Developments in copiers

Era of digital technology

ACCORDING to the market researchers, Dataquest, 1,109,300 plain paper copiers were sold in Western Europe during 1988 - an increase of 10 per cent over the previous

Of those units, 70 per cent were replacement machines, the 30 per cent of new sales being primarily as a result of greater decentralisation, with one machine per office being the trend where once it was one per building. Dataquest estimates that UK

placements in 1988 totalled 156,400, representing an increase of 7.7 per cent. However, in the estimation of NBES (National Business Equipment Survey) it was 110,800, representing a growth

One reason for the discrepancy may be that one company concentrates mainly on vendor and distributor sales whereas the other refers to end-user sales. Be that as it may, according to Barbara Anglus, European programme manager at Dataquest, companies now tend to replace their copiers every three to five years, whereas the norm, not so long

ago, was five to seven years. The largest percentage growth over the next year is expected to come from the mid-range market, i.e. from fully featured copiers offering between 30-60 minute speeds, whereas in the past year growth has come from sub-

Despite the advent of the PC and high-speed laser printers, demand for copiers, then, looks set to continue, but with competition increasing across all sectors and with digital technology and present and the continue of the PC and nology, colour and integrated desktop publishing/copyprint-ing systems being key indica-tors of the way the industry is

moving.
That said, purchasers clearly have their feet firmly on the ground when specifying their requirements, with higher productivity taken precedence over higher technology, with high speed, auto duplexing (doubled-sided copying), easier operator controls and better paper-handling being top of the

One interesting development in terms of paper-handling is a front loading cassette system, seen for example on new Rank Xerox and Toshiha machines, that eliminates the normal has-sle of replenishing paper in a restricted space. A major time-saving innovation for operator productivity is an 'intelligent Commander' for the 30cpm Minolts EP 4300

which accepts personal memo-ry-cards containing up to 10 job sequences.
Just how far copier technology has come can be gauged from the fact that, although it is a general office machine, it features anamorphic zoom, auto-duplexing and a colour system that enables three areas to be defined for colour

reproduction so that a complete mailer can be produced in one scan, with heading and footing in colour and text in However, it could be said that, for true high productivity, you need a speed of 100 copies plus per minute, the ability to collate not only copy pages but covers and inserts, with on-line stapling so that

New products meeting that specification include the Océ 2500 and the Rank Xerox 5090.

complete documents can be produced and finished on the

Not many offices would have need for such high speeds, of course, but a number of a new machine in the 40-80cpm are being or are about to be launched and they include new models from Lanler (Harris/3M), Kodak and Ricub. Underlining the heed for higher-volume copiers in the computerised office, Barry

The largest percentage growth over the next year is expected to come from the mid-range

copier market, reports Julie Harnett

Wild of Agfa Office Systems said in just three months since the launch of the X88 80cpm copier, the company had notched up orders worth in excess of £500,000.

There is no doubt that we are at last seeing the start of a new era in full-colour copying with the advent of affordable technology. It begin early in the year when Brother, quite unexpectedly, launched the 5500 Cycolor, the first sub-25,000 full colour copier on the market

There are now "develop-ments underway both up and down the range for delivery sometime next year, with the possibility of a computer colour printer using the same innovative Mead colour pro-cess," reveals John Carter, head of Brother's Office Equip-

ment Division.

Sharp also intends to launch a Mead process colour copier some time in 1990. Like the Brother machine, it will be relatively cheap to buy but will make the force for circular to the force of the colour state.

only offer size for size colour copying with costs per copy between 50p-60p.

More immediately, having entered the colour copier market earlier this year with the CX-5000, Sharp is on the brink of soing upmarket. of going upmarket. The new CX-7500 will have a list-price of around £13,000; it will produce 7.5 copies per minute in colour, 22cpm in black, reduction and enlargement and will boast a relatively low all-inclusive copy cost of 25p.

Another manufacturer with a full-colour plain paper copier waiting in the wings is Ricoh. However, as Chris Wills, UK product marketing manager, explains: "When your constitutions of the product was the product with the product was the p explains: When you can get copy-cost down to 11p or 12p

Suppliers' emphasis on cost-per-copy reflects a growing awareness of running costs among purchasers

and purchase price to under £10,000, then it would be possible to make a major impact on the market. I am confident we

will be able to deliver such a machine during 1990."

For the present, though, when it comes to full colour copying, Canon is the undisputed market leader. Only last month month the company announced the CLC (Colour Laser Copier) 200, a lower cost full colour copier with a price tag of £12,000, making it affordable for general office environ-

Producing colour copies at 4.8cpm or black and white at 20cpm, it offers 400 per cent

repeat, mirror image, margin shift, two-page separation and a new map mode for high definition of detailed areas such as maps.

Another emerging market involves digital technology which supports more creative high quality document production, a greater range of zoom with mor editing capabilities, the ability to handle poor originals and, eventually, the ability to act not only as a copier but a computer printer and a fax machine.

According to the latest NBES survey, while 30 per cent of interviewees were aware of the existence of digital machines, few actually under-stood the technology nor what the advantages were. But now that such products are being delivered and as potential users become real sales targets, then then everyone will

become more knowledgeable. infotec, Panasonic and Ricoh have such products in the pipeline although no definite dates have been set for UK delivery, although mid-1990 appear to be favourite.

On advance of the main-stream, however, is the Konica 8010 which adds colour intelli-gence to digital copying. As well as such features as 200% magnification and anamorphic zoom (image stretching both horizontally and vertically), it offers single colour (i.e. black, red. or blue); multi-colour (black, red and blue); and col-our conversion (from black into red or blue) via the use of an appropriately coloured pen On advance of the mainan appropriately coloured pen to encircle text to be con-

A multi-spot colour option is also now available on Canon's NP-4835 (list price: £5,256), the first copier in its class to combine both analog and digital technology to permit precision editing, automatic page num-bering and time and data

stamping.

It also has a stamp mode for including standard messages such as Confidential, Forward to and Copy to, Said to be "selling like hot cakes," uptake has come from manufacturing (26 per cent), education/employment (16 per cent) and professional services (13 per cent); with print shops and advertising agencies accounting for 10 per cent each.

Digital technology is also being applied to duplicating machines, enabling plain paper copies to be produced at high speed, but very low cost.

speed, but very low cost.

Both Rex Rotary and Gestner market what are called
CopyPrinters, both of which
are based on the 120 copies per
minute Ricoh SS\$30.

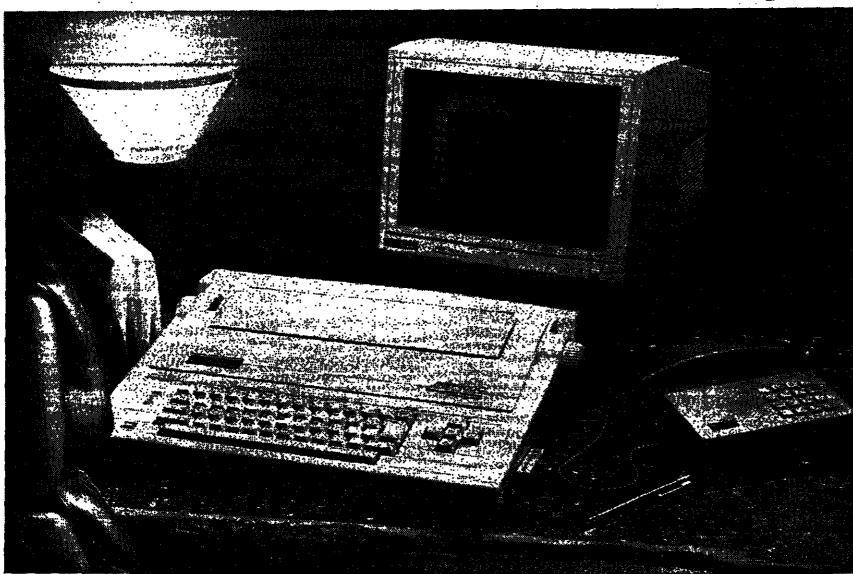
minute Ricoh SS930.

If you are into desktop publishing, then the Alcatel SP9000 digital printing system DTP Link is a most interesting development. Due for isunch in November, it is capable of being linked to IBM PCs and compatibles running Xerox Ventura DTP software or one of a host of word processing Ventura DTP software or one of a host of word processing packages and is able to produce multiple copies of multipage documents at the rate of 150 pages per minute at the cost of one tenth of a penny per print.

The emphasis on the cost per copy highlights the fact that, with the increased use of copiers, purchasers are becoming more aware of running costs, as consumers are with the

Arecent survey carried out by the publishers of What to Buy for Business shows that, when it comes to satisfaction

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ms of the future are likely to be an integral part of the desk-top computer, linking

Telephone equipment

New features abound

screen that can display mes-

sages for both incoming and

outgoing calls. For example, if

a busy user enters the message 'in meeting' on his own keyset,

that message will also be dis-played on the keyset of any

other user trying to contact

built-in calculator that can be

used both with and indepen-

dent of the Keyphone system. During a conversation, it can

be used as a scratchpad to

enter a new telephone number
– and the system can be made

to automatically dial that num-

ber at the end of the conversa-

Other features include those previously only found on PABXs but now increasingly

found on such smaller systems: call transfer, camp-on-busy

with automatic retry, call-barring, function keys and so on.
Is such functionality really

"Yes," says Tele-Nova's sales director Paul Lester, somewhat

predictably. All Apex features are included for the specific

purpose of increasing the user's telephone efficiency, and

initiating a call from the scratchpad by simply pressing

a single button both save a lot

of time - particularly when trying to get through to a number that is often engaged."

That is the key point: digital

technology must be used to

since telephone efficiency can

often be the difference between

ciency, and the way in which

the new digital technologies

can be used to ensure it, can both be found in one of the

ronments: the City's own deal-

receiving telephone information, but they cannot afford to miss incoming information

simply because they are

already using the phone.

Because of this, not only does each dealer require multiple

telephone lines (preferably to a single handset, since not even a yuppie can juggle half a

dozen phones at once), but he

or she also needs some form of information and control over

The VIAX dealer system

from TR Financial Communi-cations provides just such a facility. Each user can have up

to 30 lines coming into the single desk phone, with a series of LEDs showing which lines are busy, which lines are "hold-

ing" and so on. This way, if an urgent call is expected, the

dealer can easily switch to the required line, while holding

onto his current call.

Versions of the dealer system are also being bought by

telesales organisations and especially emergency services — anywhere, in fact, that there

is a need to control and priori-tise multiple lines.

However, nearly all telephone systems are waiting for the Integrated Systems Digital Network (ISDN). Many prod-

ucts already claim to be ISDN-compatible — but since the standards have not yet been completely finalised, there is a possibility that some products may yet be a little premature.

The important factor about ISDN is that it effectively makes the entire telephone

network digital — rather than limiting the digital capabilities to specific systems, such as PABXs and Keyphones, that are attached to the network.

As a digital system in its own right, the network will not care whether it is a telephone

or a computer terminal that is

attached - and, as a result, users are bound to discover

increasing sophistication built into individual handsets.

future are likely to be an inte-gral part of the desktop com-

puter system. Voice, data, fax you name it, it will all be possible from the single sys-

tised voice message in answer, or anything that the designer's

imagination can conceive. At that time, the telephone will become our servant, rather

than the master it is so often

The telephone systems of the

The importance of such effi-

success and failure.

mg rooms.

increase telephone efficiency

"Last-number redialling or

gical innovation.

Another new feature is a

INTERNATIONAL telephone network is truly the spreading its tentacles of com-munication throughout the industrialised nations as well

Ellip Jours

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as less-developed countries. Until recently, each tentacle culminated in a telephone handset, a device variously described as a gadget designed to enable you to talk to somebody else - or a gadget designed to prevent two people

from holding a conversation. But times are changing. The great movement of all business systems - from analogue to digital, coupled with the commercial impetus gained from liberalisation - have com-bined to create a boom in tele-

phone-receiving equipment.

No longer is the choice of equipment just a choice between grey or green. Now, with the increasing involve-ment of computer and software driven receiving equipment, the options and capabilities of office telephone systems are

truly remarkable.

There are three basic categories of telephone receiving equipment: PABXs for the larger company (to allow multiple exchange lines to come into the office, and to distribute both internal and external calls to the right people); keyphone systems (for the medium-sized site that cannot really justify a PABX); and the telephone handset itself for the individual telephone line and

individual user.
PABXs really fall outside of the purview of this discussion. Suffice it to say that the latest products are all digital, software-controlled, provide a bewildering array of facilities, can handle computer terminals as easily as telephone handsets, and offer an alternative to the traditional PC-based local

Their secret is that they are and can therefore be designed and programmed to perform functions that could never be achieved by analogue switch-

ing equipment.

Keyphone systems are typically used by small-to-medium-sized businesses that have a decentralised telephone answering system; that is, they have neither a central PABX nor a dedicated switchboard

Any user on the Keyphone system can answer any incoming call and switch it to any other user. It is the category of telephone system that is likely to receive the most dramatic development in both facilities and sales during the next few years, for not only is an effective way of handling messages with the outside world, it also provides the potential for the development of very useful

internal facilities.

To demonstrate the way in which Keyphones are developing, consider the new Apex system from Tele-Nova, a digi-tal hybrid keyphone system offering between four and 24 exchange lines, and between 16 and 72 keysets.

Each keyset has its own LCD

Copiers

Continued from page 2 with service, copy-quality, reli-ability and whether users would recommend their machine to others, the top three manufacturers were Oce,

Rank Xerox and Sharp. Strangely, Kodak does not feature at all, although the publication states that it excluded brands for which they received less than 20 replies.
Nevertheless, Kodak Copy

Products Equipment Service has just proudly proclaimed that it has become the first major organisation to achieve registration in compliance with BS 5750, the standard that aims to produce assurance to pur-chasers that they will rec eive a high quality support service. However, while manufacturers who sell direct are naturally keen to tell the world of their awards, an increasing number of purchasers are buy-

tem. And since we can program it, we will be able to screen out all but the most pressing calls, or re-direct to another phone, or send a digital trade. ing through dealers. indeed, most manufacturers we talked to are anxious that, with their back-up and service support, dealers do take the new technology products on board, for they see that is the only way to maintain market share in the years ahead.

LIFE never gets easier - especially for buyers of office

computer equipment. There was a time when choosing a computer was simple. If you were a small com-pany, then you needed a per-sonal computer, if you were a medium-sized company, then you needed a minicomputer; and if you were a large or international company then you needed a full-scale main-

But all of this has changed or is changing very rapidly – the demarcation lines are blurring, and there is no longer a direct correlation between computer size and classification - and computer power. There are three primary cat-

alysts: PC networks, the new classification of multi-proces-sor or parallel processing supercomputers, and Risc (for "reduced instruction set computing") processors.
PC networks are the easiest

to understand and to explain: you simply link a number of stand-alone PCs together so that they can share common resources, such as file storage and printers. This makes the PC itself suitable for small, medium and large companies. Instead of buying a central

mainframe with remote terminals at different sites, you can now use individual local area networks (Lans) at each site, and use 'gateways' to link the different Lans together over the public network or via leased lines.

Parallel processors are a different matter altogether. The theory is simple; many hands Demarcation lines are blurring between computer classifications

Complex choice for buyers

make light work. By using multiple processors and distributing the processing requirements around the differ-ent processors, users should, in theory, be able to reduce the required processing time for

The two most common parallel processing architectures are a daisy chain link from one processor to the next, and a complex topology known as the hypercube. The daisy chain approach is most frequently used with a relatively small number of minicomputer-sized processors to turn the result-ing product into something more than a mainframe: a supercomputer. These are very powerful - but not cheap.

But it is the hypercube topol-ogy that could most upset cur-rent computer classifications. Hypercubes generally use microprocessors in various combinations of from, say, four to thousands. But what is a hypercube? In

computing terms, it is an inter-connection scheme based on an 'n' dimensional cube where 'n' represents the num-ber of directly-connected nodes, or processors. By this classification, a sin-

gle standalone PC is a zero-dimensional hypercube; a twoprocessor hypercube is a onedimensional cube; four procescube - and so on - up to something like a 10-dimensional hypercube made up of 1024 individual processors.

In practical terms, the important point about the hypercube is that it is the best methodology for linking large numbers of processors in the most effective manner. This topology conforms with the requirement to link each pro-cessor with its nearest neighbours; so, in a four-dimen-sional cube, each single processor is connected to its four nearest neighbouring pro-

This is important, since a significant amount of processing within a parallel processor system must necessarily be concentrated on the physical act of sharing the tasks around the processors even before any real processing can begin. Nevertheless, although a two-pro-cessor system will not perform a task anything like twice as fast as a standalone system, the increased performance can

be quite phenomenal. But how does this affect the traditional classification of office computers? Consider the "Ncube" prod-

uct range available from Arrow Computers. The smallest system is the Ncube Four a 16-processor hypercube

that actually fits into a PC AT chassis, and provides more power than the traditional minicomputer. The Ncube Seven (with 128 processors) is the size and price of a small minicomputer but with the power of a mainframe; while the Ncube Ten (1024 processors) offers more power than some of the largest mainframes in the size of a mini-computer

Kevin Townsend highlights catalysts of change in computer classifications

and at the price of a very small mainframe.

Parallel processing offers the potential for vastly increased computer power by maximis-ing the use of existing technology. But the last new development has equal potential for disturbing existing computer classifications; the Risc proces-

Risc (reduced instruction set computing) is best understood in terms of the ubiquitous 80/20 rule. Research has shown technicians what any businessman could have told them: 80 per cent of the work accomplished by a computer application is performed by only 20 per cent

of the available commands. Further tests demonstrated

that by reducing the com-mends (the instruction set) to the 20 per cent most used (or thereabouts) and by maximis-ing the efficiency of those commands, the actual processing power of the resulting computer is dramatically improved over existing conventional products, (Cisc, or Complex Instruction Set Computing).

it's not quite that simple, of course. Risc maximises the 20 per cent by making the com-mands so simple that a whole command can be completed in every single processing cycle. A conventional processor command may be able to achieve more in a single command, but may take three or four cycles compared to the two cycles for two commands in a Risc pro-

The overall effect is that Risc processors have caused a sudden and dramatic improvement in the performance of what effectively usually remains a

So dramatic is this improvement that it has led to a a new category: the workstation. At the moment, workstations and Risc systems are primarily aimed at Cad and scientific applications.

larger systems, Kode Comput-

ers is already offering a very powerful Risc-based product (the Kode Icon 8000) as an extremely powerful minicomputer at a very competitive price. In the workstation mar-ket, Data General has just released its "AVIION" workstation, offering the Cad or graphics designer all the power he or she could possibly

require for what is a very pow-er-hungry application.

The AVIION is actually housed in a chassis that is smaller than most PCs - and yet is very much more power-ful.

Now, the interesting thing about these two products is that they actually use the same Risc microprocessor - the Motorola 88000. But what is even more important for the future is that both companies are heavily involved in an organisation called the 88/Open Consortium - whose avowed intention is to promote the development of software so compatible that it can be bought 'shrink-wrapped' off the shelf. It will, effectively, mean that software for the AVIION workstation will run unchanged on the Kode minicomputer.

The combined effect of parallel processors and Risc computers will mean that the current demarcation for PCs, minicomputers and mainframes, based largely on comparative power, will become nonsensical. It will obviously give the user considerably greater choice, but it will undoubtedly give the con-But this will change. For sultant considerably more

CAN YOUR COMPUTER KEEP PACE WITH THE AMSTRAD PC2286?

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With an Intel286™ chip at its heart, it three revolutions. doesn't hang about when it comes to data processing.

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interleaving. Without getting too technical, this



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All PC2286 models feature 1 Mb of RAM and come with either twin 31/2" disk drives or 40 Mb hard drive with a single disk.

And all will cost you a lot less than BUT PITCH most other comparable machines.

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IN AN age when the demand for more PC-power and ever higher speeds for text commu-

nications, a legitimate question might be whether there is still

a place for the typewriter and

address envelopes or fill in

That said, there is no doubt

that sales of the traditional standard typewriter are in decline. According to Wharton

Information Systems, the publishers of BOSS (British Office

Systems Service), the annual

UK spend on equipment to pro-cess information on the desk-

top has climbed to £2.17bn and is forecast to reach more than £5bn in 1992.

sales of office electronic type-writers reached 188,000

machines in 1988, representing revenues of £89.7m million and

an increase of 1 per cent in

unit terms over 1987, with compact memory machines taking

an increasingly larger share of

the market at the expense of standard non-memory mid-

Sales of display typewriters were put at 72.5m machines,

Within that overall total,

pre-printed forms.

word processor.

Demand for more advanced facilities

According to office technology suppliers who offer prod-652.15m but a decline of 9 per ucts across the whole speccent, in unit terms. trum, the answer is a resounding. Yes. The personal One area of the ET market that no one disputes is still computer, they say, is ideal for booming is the portable sector those who are numerate by which is showing a 60 per cent inclination and therefore are growth. As a result, an increasnot fazed by a PC keyboard and complicated commands, ing number of suppliers, including Brother, Hermes, but it is a far from ideal solu-OEM and Sharp, are targetting home office workers and PC-ustion when the user needs to produce high volumes of large text-based documents, one-off letters and shorts memos,

Sales of traditional standard tyewriters are in decline

ers who need a small, convenience typewriter. Typical of the new generation of such machines is one of a the new line-up from Panasonic which offers 14K memory (equivalent to about seven pages) and which has a list price of just

The market leader in this sector, Smith Corona has also launched a new range of portable ETs supported by a £500,000 advertising budget. Again highlighting the way technology is progressing even at this end of the market, machines are priced from £189 to £299 and come with a built-in demonstration for easy learning, spelling-checker, up to 20K (10 pages) of editable text memory with 90-day battery backup,

correction memory and new yout facilities.

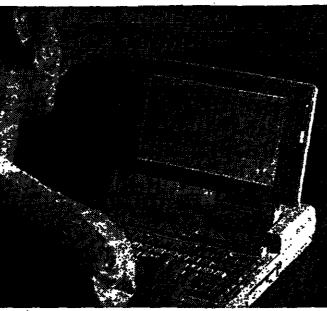
Barry Bruce, market manager of Hermes Precisa, is not alone in believing that the typewriter will make a comeback just as the calculator did when people discovered that the PC was not the right tool for instant mathematical functions - "nothing the computer or printer manufacturers have yet devised, and we consider ourselves among them, deliv-ers the same degree of versatil-ity as the simple ET." Proof that the ET with WP

features is in high demand comes from Rank Xerox, who spent four years and \$40m developing a new noiseless (almost) print technlogy for the Piano range. According to Iain Livingstone, director of Associated Business Operations, the machines were designed in direct response to consumer which indicated that noise was becoming an increasing problem in the office environme

Advanced word processing facilities include document assembly, auto-pagination and spell-checking. Meeting demand for greater communi-cations capabilities, it is also possible to dial-up Ethernet (the local area network) and send electronic messages or exchange documents with

Sales, we are told, are above still boast full WP, 12th screen expectations. Whereas £2,000 plus was deemed an acceptable price a couple of years ago, new machines coming on to the market, such as the Visuwriter from Kardex and the 3004 Viewtyper from Crown/Er-ika, are being delivered at under £800, but nevertheless

and disk drive for text storage. Such systems are ideal for the secretary has to create a lot of documentation but would run a mile from a PC. Statistics would suggest, however, that the era of the so-called 'dedicated or proprietary word pro-cessor for general office use is



Bringing portability into the realms of Toahiba's Ti600 286 Deaktop Computer,

coming to end.

Manufacturers including AEG Olympia, Hermes, Olivetti Office and Philips believe that the way ahead lies with

IBM compatibility in one form or another, particularly in the general office environment where, for instance, files need to be exchanged between author and secretary either for checking or, say, for the production of corporate reports that need to incorporate data from departmental PCs.

As an example of the trend, Facit is about to launch two IBM-compatible word processors with keyboards customsors with Reyboards custom-ised to the secretarial job func-tion and incorporating an ergonomic, low radiation, low magnetic field screen designed to the most stringest Swedish emission regulations, a specifi-cation that is laible to be increasingly in demand as we move closer to the Europe and start adopting higher stan-

A particularly interesting development in terms of office technology is the new genera-tion of secretarial workstations that combine the functions ofan ET with that of a WP and PC. As an example, AEG Olympia has just launched what it calls 'bridge' products which combine the best of all three worlds, (see below). For the technically minded, the screen

has a high 80MHz refresh rate, which means that it is flickerfree and can be used all day long without tiring your eyes, a feature that few PCs can

One of the first three-in-one systems on the market and launched last year was the OEM Screentyper Plus which boasts four disk drives, one of

Powerful new chips are making systems easier to use

which is a 30Mb hard disk and, musually, a tape streamer to prevent data-loss in the event of a power failure.

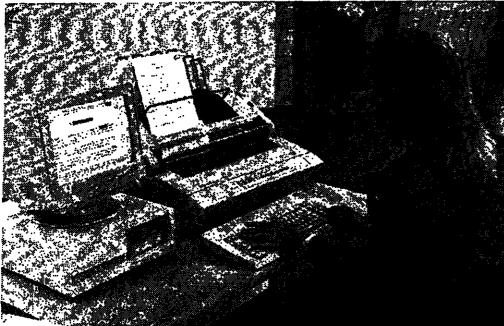
The next stage in the devel-opment of the ideal secretarial workstations is likely to be the customised desktop publishing system which is as simple to use as a word processor but offers more advanced software for more imaginative docu-ment creation, has enough power and storage capacity for records management as well as graphics and image handling, is IBM PC-compatible so that it can be linked into a PC-net-work for electronic mall, diary scheduling, file transfer, and so on, which also offers ultra quiet printing. Rumour has it that Olivetti Office has such a system in the wings, based on thermal printing technology.

While refusing to be drawn on dates, marketing manager Alistair Booth did say that such a product was possible: "The office systems industry is very much like the car industry. There is little difference between the engines today, it is the design of the casings and controls that makes the rea l difference in terms of user-appeal. A video publishing-type product might use the same chip as our M250 micro, but it would look different because it would be tailored to the application."

Indeed, as more powerful chips like the Intel 286, 386 and soon 486 processor become the norm in office systems, so the software developers can pro-duce applications software that is truly easy to use, rather than supposedly easy to use. The manufacturers, in turn,

will be able to design workstations that any typist could use within minutes without having to attend an intensive training course to get beyond first base.
The general feeling among
the main ET/WP industry players is optimistic, despite market researchers' forecasts. Whether or not Amstrad will once more pick up the gauntlet and launch a PC-compatible PCW word processor, as is rumoured, we have no way of confirming. Certainly, the famous LocoScript software is now available for PCs. But then, as we said at the begin-ning, PC keyboards are not

known to be "secretary friendly." A case of watch this



worlds

There is no better way to store, manipulate and preser large volumes of text and data than with a personal

Research indicates, however, that around 95 per cent of secretaries who acquire a word-processor still keep their familiar manual and electronic typewriters as a speedy option for tackling smaller tasks, such as the typing of compliment slips and envelopes, according to AEG Olympia, the business

"There is still no quicker or simpler way to produce a straigth-forward letter or memo, or address an envelope, than using a typewriter," admits the company which is now producing a range of new "bridge" products — such as the Olytext 30, shown here, which is claimed to combine the best of three worlds - typing, word-pro-cessing and computing.

This text system allows typ-ing and correcting on both screen and text simultaneously, thus giving the immediacy of print associated with a typewriter.

¹4 million users know our strengths

but may not know our name

processor, and, with MS-DOS, offers the user access to a wide library of PC-compatible software and available with dual 3.5in. floppy disc drives and single 3.5in. plus 20Mb hard disk and a black-on-

white monitor. The choice of printers range from daisywheel, matrix, laser and inkjet

Olympia Business Machines recently changed its name to AEG Olympia (UK), reflecting the change in structure within the group which is part of the Daimler

ARIX

Document image processing will boost the amount of electronically-managed data

A way to revolutionise computer applications

COMPUTERS are increasingly used to store and manage corporate information - but spite their ubiquity, the amount of corporate data actually held electronically remains a very tiny

percentage.

The fundamental reason is simple, although perhaps a little surprising to those who have grown up with computers: computers and business are intrinsically and herently incompatible.

summarised very simply: data stored as small combinations of individu characters, while business sses informal information, stored on

The reason can be

While computer data can only be held in one manner, generally the Ascii code, paper-based information can be held in a variety of formats. different type-styles and sizes, pictures and illustrations, and handwritten annotations. The traditional formal computer cannot handle the informal business document

Until now. The latest movement in office systems is towards the technology known as Document Image Processing (DIP), a technology still in its infancy, but one that could revolutionise the way in which computers are used in business.

In concept, it is very simple. Instead of using a computer to store and manage ndividual characters, you use it to store and manage entire documents. Instead of typing the character at a keyboard, you scan in an entire document through an optical

Once you have all the information held on an informal document stored within the computer system you can begin to develop methods of making use of that information, The full realisation of this potential is, of course, still a long way in the future.

In the meantime, DIP is being used in two particular and less ambitious manners. Firstly, it is being used to create and maintain an archive document database and secondly it is being used as a methodology for the processing and distribution

But before we examining the methodology and value of these applications, we should first be sure of what constitutes a DIP system. The starting point of any DIP system is an optical scanner. This is used to scan individual documents and

convert the image into a digitised representation.

The digitised image is then sent to a central computer (increasingly a microcomputer that many he atther conductants). that may be either standalone or networked), where it is processed and either displayed on a screen, printed, or stored on an electronic archive

A DIP display system should preferably be a large screen with a high resolution to ensure that even a document's small print is perfectly legible. The printer must be a page printer probably a laser printer, and be able to print t at least 300 dots per inch

The archiving system could, in theory, be any system able to store data electronically. In practice, however, it is likely to be an optical disk

A single digitised image requires a considerable amount of storage space: a database library of masges could not economically be handled by anything other than optical technology. The final element is the specialist seftware to make

the various components work together as a single coherent It is the software that makes all the difference between an effective and an ineffective DIP system. The primary requirement is to create and maintain an indexing system

for the document images. Without this it would take longer to find any particular document than it would in a traditional manual filing system. However, any index is only as good as the information within it.

Under normal circumstances, any need for an ultra-flexible index system would require a considerable degree of data input through the keyboard - and this could lead to a bottleneck at the

scanning stage.
It could also mean, of course, that the passage of time and changing circumstances could reduce the relevance of the chosen index keys.

One growing solution is to use an image-to-Ascii conversion feature, and then index every single word on every single document. Here the system will take a particular pattern of dots and compare it with a library of master' patterns.

The comparison enables the system to decide whether the pattern is 'meaningless' or an actual character. Whenever the pattern matches, the image is converted to the relevant Ascii character; that is, the informally displayed information is converted to formal computer data, and at this point the full processing power of the computer can be brought into play.

Because the data is now in the computer's own language it can index every word and store it as a free text database or it can convert it to a different file format and send it to a word processor or spreadsheet program. Most of the existing DIP systems are American in

mmaber are being devel in the UK and Europe. British-based Docume ns has built a PC-bar system from existing components (using a PC scanner, optical disk and Canon-based laser printer from whatever origin – although statistically likely to be US or Japan), and adding to that an image processing board from the US and its own

Infoplus software. From Italy comes the Archea system, available in Britain from Ingenium software. Although new to the UK, it is well-established in Italy — and actually uses British free text retrieval database database software. One user is Electronica di Potenza, a division of the electro-mechanical

engineering group, Ansaldo. Archée has enabled Ansaldo to centralise its hitherto fragmented archiving centres, and has eliminated much of the associated overheads caused by time-consuming manual searches.

Indeed, Ansaldo has estimated that it used to spend 7,500 man hours every year simply in searching through its physical archives - now a single search can be achieved within moments.

What Ansaldo has achieved library – and Document Imaging Processing can almost always be justified on the consequent savings in staff and cabinet storage space

But this is only the beginning. We have already mentioned that the next step must be the transfe document data into traditional computer applications. This is already becoming possible.

A new optical character recognition system (OCR) called TrueScan and available from Frontline can now read in scanned text and write it

straight out to any one of a dozen or more applications, ranging from spreadsheets such as Excel and 123, to word processors like Word and WordPerfect. What we shall see in the

Man we shall see in the
future, as IBM's Presentation
Manager and the Unix-based
X-Windows systems become
more prevalent, will be the
ability to cut-and-paste
scanned text straight from
the lives to the configuration the image to the application. And it is document image processing that will finally unite informal business procedures with formal computer requirements.

Kevin Townsend



easily managed on DIP systems



☐ Paul Starkey, above, producing one of the winning entries for the "Document of the Year" awards, using Rank Xerox's Ven-tura desk-top publishing system — he brought together one of the world's oldest technologies (animal power) with one of the newest (DTP) to produce a 350-page book, called "Animal Power in Farming Systems." This publication, which is based on 44 papers from a conference in West Africa, is distributed free in developing countries by the West German aid agency, GATE, (German Appropriate Technology Exchange)

Design criteria for desktop publishing

WHILE desktop publishing (DTP) is coming of age, one of the criticisms of DTP is that, in the the wrong hands, it can produce dismal-looking docu-ments, while turning busy executives into second-rate

designers.
At least five design criteria for the successful production of a DTP document are suggested by John Miles, author of Design for Desktop Publishing, and one of the judges of a "document of the year" competition, using the Xerox Ventura Publisher program. The design criteria include:

☐ Function: documents need to be appropriate to the job they are required to do. There is also the Issue of using the right technology for such tasks as updating DTP documents.

☐ The choice and use of type: typography, column widths and line-length, head-

ings and spacing all contrib-uts to overall readability. ☐ Layout the right balance

between text and illustrations.

Aesthetics and discipline in the use of features - "a continuing weakness of documents designed on DTP pro-grams is the indiscriminate use of the many features available. Boxes, rules, tints, reversals and drop-shadows are far too often a sign of desperation and a failure to understand the correct design

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☐ Production - *getting the whole documents set up on a disk is only the beginning." says Mr Miles. "The rest of the production process has to match up to it. This isn't just a matter of cost - two of the six

winners were well-produced, low-budget productions."

Top prize for "document of the year" went to Horizon, a medical journal from Medi-

ONE DAY SEMINAR organised by

Facility Design & Management magazine

THE OFFICE

the issues of the 90s

Business Design Centre. Islington, London N1

2 NOVEMBER 1989

During the past five years, developments to improve efficiency of office environments have concentrated on accommodating technology, often to the detriment of the workforce.

The aim of the seminar is to stress that in the 90s, commercial success will depend increasingly upon a company's ability to recruit and retain the right staff.

This changing emphasis will place great pressure upon those who own, run or design offices. The situation will be sharpened by two things. The developing skills shortage, and the risk of employees suing their employer for work-related health

Topics will include: 'Designing Offices With People In Mind', 'Office Environmental Controls', 'Sick Building Syndrome', 'Furniture's Role', 'Computer Aided Facility Management'

Delegate fee: £120 plus VAT (includes full documentation pack, refreshments and lunch.)

For reservations and full programme details contact: David Knudsen, Facility Design & Management, 21A Brighton Road, South Croydon, Surrey CRZ SEA Tel: 01-686 0141; Fax: 01-680 1825



mid-range systems supplier world-

wide (Dataquest News Survey).

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THE DIFFERENCE IS ARIX

TECHNOLOGY IN THE OFFICE 5

Information Technology A framework for security **Data processing** Security & integrity **Telecommunications**

\$1bn market for office security systems

AS OFFICES worldwide make increasing use of information technology systems, there is a growing awareness of the importance of proving secu-rity measures to ensure the constant availability and integrity of these networks especially in the financial communities of Britain, West

Germany and France. The European market for security products and services for information technol-

could rise to over \$2.39bn by 1993, according to Frost and Sullivan, market analysts.

Forecasts are made for the value of markets in individual European countries, broken down into four main security sectors: access control and physical site protection; telecommunications security; database systems; and security services, including off-site

sible from desktop workstat-

However, the launch of Mer-

cury's 7200 telex service has

purchasers demanding the ability to access both BT and Mer-cury networks to take advan-

One of the companies

responding to demand is Data & Control Equipment with the

development of an 'intelligent

upgrade for its TelexBox that offers auto-routing, via Mer-cury, for lower cost interna-

tional traffic and, via BT, for

UK services.
The BABT approved UK-

manufactured system connects

PCs, word processors and even

electronic typewriters to the

telex network, obviating the

need for specialised e quip-

ment. Ideal for smaller offices, up to eight separate users can be hard wired to send telexes,

faxes or internal mail, while occasional users can have dial-in modern access to send

dial-in modern access to send and receive messages.

Looking at worldwide telecomms statistics from Siemens, one can see why the more personal forms of communication, i.e. fax and E-Mail, would not be so popular in Third World countries. In 1987, there were 454m telephone numbers in the

454m telephone numbers in the world. In the US, 50 per cent of the population has a telephone

which compares with 22 per

cent in Europe and six per cent in South America, 5 per cent in Central America and 3 per cent

Britain lies 14th with 39 tele-phone numbers per 100 inhabit-ants. Because of the difficulties

already cited with regard to E-Mail, many firms have turned to what is known as a

value-added network services

The early problems of

Incompatability of electronic mail have

now been solved

(VANS) to route their elec-

tronic mail messages.
One such is The Direct Connection which claims to be

able to sand electronic mes-sages to over 4m users on over 12,000 E-Mail and computer

systems worldwide at a cost of 5p plus Vat per 1,024 charac-ters.

text and data communications.

Another development high-

lighting the trend toward mul-ti-function message handling systems is the new Unix-based ADT 6600 from Alcatel Data

ige of least cost routing.

Electronic mail

The need for PC power

WHILE the use of facsimile has rocketed over the past couple of years, the uptake of other forms of text and message communication such as the electronic mail services and telex have shown a somewhat lacklustre performance in compari-

There are several reasons for this. Telex, for example, has suffered from slow transmission speed, time-consuming set-up procedures, high cost of hardware and the need for a dedicated operator.

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Electronic mail has suffered incompatibility between the various services such as Telecom Gold and One-to-One; general staff found the systems difficult to access; users found it inconvenient to be forced to actively collect, as opposed to passively receive, messages; and users - not unnaturally -baulked at having to pay to collect faxes that might well be

Software solutions now make telex accessible from desktop workstations

Many of those problems have now been solved. For example, the advent of digitised telex networks means that users can access the facilities direct from a desktop PC via a simple message switch, which means that even small companies can now consider telex as a medium for fast and, more importantly, legally accepted text communi-cation.

While British Telecom's 1988/89 results show that telex service volume has declined service volume has declined "with the continuing migration to facsimile and the effects of competition," the company agrees with Mercury that there is still strong demand from freight forwarders, importers/exporters, financial institutions and compenies peciling tions and companies needing to communicate with third

world countries.

It explains why, with Mercury claiming that it handles 30 per cent of all international telex traffic from the UK, BT is determined to progress its £100m investment programme which aims to provide an all-digital telex network by the end of 1993.

Another, Com-Fox, not only provides a service but has just introduced an electronic messaging system for PC users which, based on the Intel 80386-based processor, supports up to 32 communications lines to give access to most forms of text and data communications. To date, nearly 60 per cent of its 116,000 telex connections are benefiting from 50 per cent faster transmission speed, store and forward telex and multi-addressing with faster

set-up.
Used mainly by companies rather than individuals, there are some 1.7m telex terminals

are some 1.7m telex terminals in use, according to statistics produced by German communications giant, Siemens.

Germany has most telex ports although, in relation to population, comes after Luxembourg. Switzerland, Hong Kong and Belgium. The UK is 18th with 19.6 telex terminals System. As well as access to fax, E-Mail, telex, WPs, videotex, X.25 and so on, it offers such facilities as least-cost routing, auto-message re-direction, management statistics, pre-set transmission times and 15th with 19.6 telex terminals

per 10,000 people. Because the standards for message securify.

Another increasingly poputelex, like fax, are internationally agreed and have been for lar form of written communicasome years now, there are a mumber of systems and soft ware solutions already on the Ladbroke to send confidential market that make telex acces-

109,082 units, were purchased during the first six months of 1989, according to the latest fig-ures published by the BFICC (British Facsimile Industry Consultative Committee), the fax trade association. It proves beyond all doubt

NEARLY a quarter of the fax machines in use in the UK, i.e.

that fax is the preferred method of electronic text communications, with the UK installed-based now in excess

According to statistics produced by British Telecom, the world population of fax machines is 7m, with Japan commanding the ilon's share of 41.4 per cent, North America a 31.4 per cent share and Europe 20 per cent. Of the 1.4m machines

installed in Europe, 25 per cent are in the UK, 14.3 per cent in Germany, 13.6 per cent in Italy and 12.9 per cent in France.

Main users of fax, according to a survey carried out by the UK's NBES (National Business Persistents Courted to the Courted Services Courted to the Courted Services Cou

Equipment Survey), are secre-taries (30 per cent), managers (24 per cent) and clerical staff (12 per cent), with technical staff and directors, each representing 1 per cent of users, show little interest. One can see this growth pat-tern reflected in the number of

new entrants to the fax market this year. Traditional suppliers such as

Alcatel, British Telecom, Canon, Infotec, Interscan, Kon-ica, Lanier (Harris/3M), Muirhead, NEC, Panasonic, Philips, Pitney Bowes, Rank Xerox, Ricoh and Sharp now face

Fierce competition as new suppliers enter the facsimile market

The fax phenomenon

fierce competition from such nerce competition from such suppliers as AEG Olympia, Brother, Fujitsu, GPT Plessey, Hermes Precisa, Minoita, Mita, Mitsubishi, Office & Electronic Machines (Triumph Adler), Oli-

vetti Office and Toshiba Whether the market can sustain that amount activity is open to question. But since there are over 454m telephones in use around the world, 20m of them in the UK, penetration of fax has hardly scratched the

Amstrad, then, should not be unduly concerned about being late into the game. Certainly the company's new FX 9600T should give the competition a run for its money. On the face of it, the price of £599 was a disappointment, with some eager market watchers hoping for at least a sub-2500 list price. However, closer examination of the features confirms the trend towards feature-packed would have cost nearer £2,000

The first fax to be Mercurycompatible, it comes with fully featured integral handset, LED display, 100-number memory, auto-paper cutter, 20-page auto-sheet-feeder, auto-redial, 16 shades of grey and halftoning, on-board battery backup, "paper-out" alarm and red star

More interestingly, it can be connected to a PC allowing

direct transmission without an intermediary print-out; it can be used as a scanner to capture the user's signature for auto-

addition to each fax message;

occasional copier.

Another machine epitomising the trend towards greater sophistication is the Sharp FO-550, a combined fully-featured lephone and fax which can be connected to most telephone answering machines in order to receive, completely automatically, voice, fax or recorded

With a list price of £1,645, it also has a 14-page memory. What many buyers in future will be looking for, however, is CCITT ECM (error correction) conformance, the new standard which guarantees clear, error-free fax transmission between all Group 3 machines.

It is a feature that will be atly appreciated by serious fax users who know the frus-

mark providing proof of delivery. tration of having to manually re-transmit messages that have suffered from a poor line. We are already seeing a plethora of new machines with CCITT

For example, following in the footsteps of Panasonic and Pitney Bowes is Alcatel Data

Facsimile is the preferred method of electronic text communications, says Julie Harnett

and it can be used as an IBM-Systems which promises the Epson compatible printer or launch in November of two such machines, one of which boasts 11-second transmission a real cost-saver if you send a

lot of faxes. Another trend is toward the development of machines with larger memories which enable users to store confidential mes ages, create personal mailhoxes, store fax messages for later transmission at cheap rates or to co-incide with different time zones, or for storing incoming messages if the paper

has run out. However, while a fax machine may boast a 2Mb memory which, in personal computing terms, means the ability to store some 1,000 pages of A4 text, with image technology like fax, it only allows the storage of around 60

Highlighting the trend is the new Sharp FO-800 CCITT ECM fax unit which has a price tag of £3,295 and comes with an expandable 70-page memory.

More advanced still is the new
120-page memory Nefax 440
from NEC, which offers A3 transmission, enables you to broadcast stored faxes to over 200 destinations automatically and is priced at £3,395.

Batch transmission, a new be stored in separate segments of the memory for up single transmission to a maximum of 10 destinations at a pre-registered time - ideal if you accumulate a number of messages during a day for each of your

verseas offices, for example. The addition of departmental access codes and sectionalised reports ensures easier cost allocation. Junk fax is an epidemic in the US and a growing problem in the UK as direct mail and marketing companies begin to address the extensive

base of fax users. Most junk fax is transmitted at night, when rates are cheaper and there is no one there to switch the machine off. With the high cost of thermal paper, nobody wants to be faced with reams of unsolicited mess: Pitney Bowes has developed a

8050 whereby it will refuse to accept transmissions if it does not recognise the CSI (Calling Station Identifier).

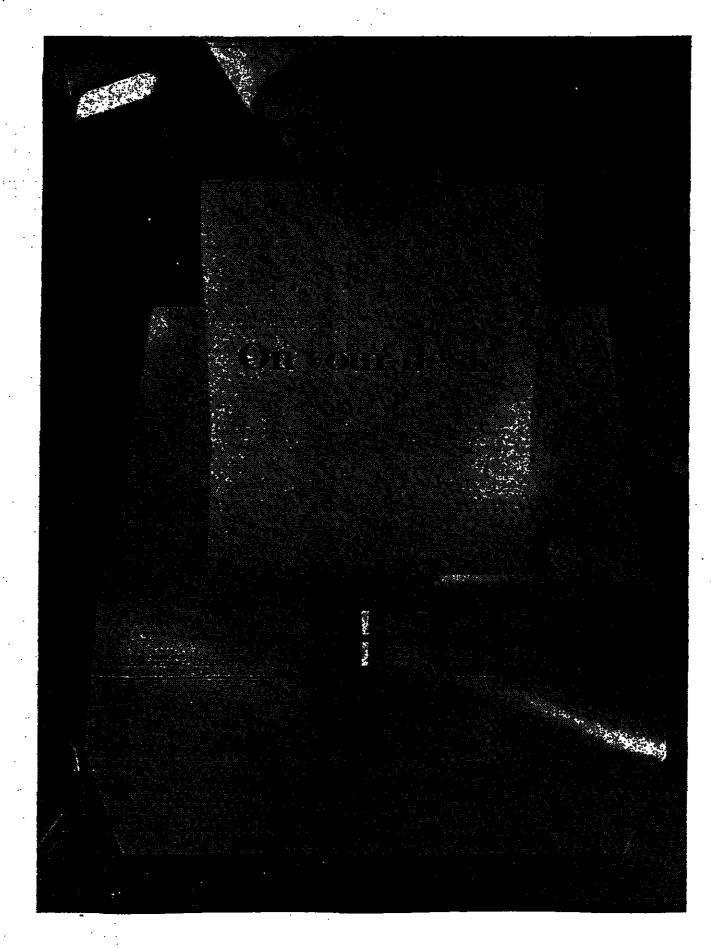
them, too, since that will only handle authorised transmis sion/reception. Thermal paper may serve its purpose in terms of messaging, but the heat gen-erated during transmission tends to make it curl, resulting-in mixed up messages in the receiving tray; images tend to fade in a relatively short space of time; and it is difficult to write on, making text correc-

What most fax users have been patiently awaiting, then, is the affordable true plain-paper fax. That promise become a reality in June this year. The first to deliver was Canon who launched the £4850 L920 lase fax which can transmit an A4

page in 12 seconds As well as 50-200 per cent zoom, it offers book scan mode (up to A3) with a flat platen for direct transmissions, speed dialling, 65-page memory, sequential broadcasting to 151 locations and batch transmissions to 24 destinations.

Next to introduce a plain per fax was Ricoh with the £4,695 Fax 1000L, followed by Infotec with the 6755 at £4,650. Features common to both include CCITT ECM, ID-codes to prevent junk mail reception. maximum 750-sheet paper capacity, 50-page memory with 72-hour battery backup in case of power failure, 64-step half-tone and contrast control and

The new HP LaserJet IIP goes where no other laser printer has ever gone before.



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THE POSSIBILITY MADE REALITY.

TECHNOLOGY IN THE OFFICE 6

Computer-related furniture systems offer advanced facilities

Solutions for cabling problems

ISSUES such as how to solve cable management problems and make better use of expensive office space have helped to boost the market for computer-related "systems furniture," now worth £670m in the UK alone and likely to rise to £890m by 1990, according to a new report.

new report.

The increase in office automation, high office rents and a growing awareness of the company image have all helped to boost sales of space-saving, screen-based "systems" furniture, equipped with advanced

ture, equipped with advanced cabling facilities.

A leading player in the international market, such as Herman Miller — with a worldwide turnover of \$793m last year — has seen "steady growth" this year, according to Andrew McGregor, managing director of Herman Miller

Europe.

The Steelcase group, by far
the world's largest manufacturer of office furniture, with a
turnover of \$4bn, now has 25
per cent of the US systems
market. It has seen its turnover in Europe increase from
£195m last year to over £250m
this year.

this year.

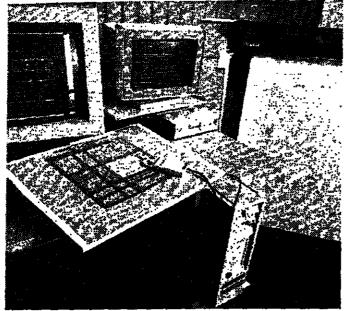
In Britain, Steelcase Strafor has just taken over the Gordon Russell group, the long-established manufacturer of office furniture, which includes Harvey and Giroflex Seating, reflecting the rationalisation now going on in a fragmented marketolace

marketplace.

Project, the largest Britishowned manufacturer of office furniture, confirms that the issue of making more efficient use of office space is a main concern among systems' buyers. Project, with a turnover of over £50m, will launch a new systems range next year and is expanding its European growth through mergers and acquisitions.

With its French associate, Atal, which also has a turnover of more than £50m, Project — and Voko of West Germany, and Steelcase Strafor — are probably Europe's top three furniture manufacturers.

Despite the momentum in the systems market, there have been forecasts in the UK of some slowing down in the sector after five years of boom. Even so, a report by Business and Research Associates claims that the overall market is growing at 30 per cent this year and may increase by 21



More suppliers of office furniture systems are using computeraided design to revolutionise the formerly lengthy process of planning and re-designing office layouts. On the Colston Computers system at Bristol, floor plans stored on the computer above can be called up on screen (left), office furniture (drawn to scale) re-arranged as desired, and the finished result printed out on a plotter (right), all within minutes.

per cent for the 1989-1990 period.*

While there may be some slow-down in the lucrative London systems market – for example, in sales to the financial community – the UK systems sector is still moving forward strongly in areas out.

The system of the London-based National Business Equipment Survey. Estimates of market size vary considerably in the industry, due to varying definitions of systems, screening and desking for the automated office.

Paul How, managing director

cial community — the UK systems sector is still moving forward strongly in areas outside of London, particularly in high-tech industries, according to Matthew Davis of Steelcase Strafor. The company has just launched its Valencia range in the UK — a panel-come-freestanding system, already popular in the US.

In the early days of systems desking for the automated office.

Paul How, managing director of Asher Systems, part of Pentos, says: "We are looking for market growth of over 10 per cent a year. Any company that wants to make an impact in the UK has to invest serious money in design, manufacturing and marketing — and that is precisely what we're doing."

The range of systems products is continually expanding.

The first design from Herman

Miller's European and development team was launched this

month at the Designer's Satur-

day event in London. The

range, called the Jaeger Group, features free-standing desks

and conference tables, compati-

ble with Miller's up-market

Bithospace Interiors.
Under the title of Office Pavilions, Miller is launching a

second tier to its dealer net-

work, which aims to provide

the end-user with a "total package" by forming alliances

with up to a dozen leading sup-

In the early days of systems furniture, companies in Europe had little option but to buy expensive imports. Now the picture has changed, says Jean Davis of Corporate Connections — "manufacturers, many of them British, have opened up the middle ground, where before there was no such ground. They have up-graded the quality, design and choice of mid-priced systems, so that they now present serious competition."

From a marketing standpoint, the increased competition could bring a greater emphasis on direct sales, suggests Mr Gautam Barua, direcpliers of lighting, seating and other facilities.

For the past five years, European systems suppliers have worked hard to create dealer networks, similar to the sophisticated US pattern. Some of the most successful of the dealerships created in the UK have been led by experienced management teams at the helm of major US systems companies. Among the more prominent are Business Design Group, Facility Group (headed by former Miller management), and Bristow Design Systems, (former Steelcase management)

of President Office Furniture, says that "manufacturers generally, and President in particular, are getting closer to the end-user...it is becoming a partnerships between manufacturer and dealer, strengthening the support, and so helping the dealers to secure business."

Steelcase Strafor, which now has more than 170 dealerships in Europe and nearly 6,000 employees — excluding operations in the US and Japan — provides facility management advice to clients wanting to improve asset management and office cost-containment.

Despite the advancing cablemanagament facilities of systems furniture, a recent report by a leading architectural group, and sponsored by Project Furniture, claims that manufacturers' brochures and sales literature did not always adequately present the capabilities of systems in areas such as standards, safety and technical capabilities — "general assumptions from literature were correct and rarely proved wrong, but in many cases, discoveries were made at show-

Alan Trotter, marketing director for Carson, the UK manufacturer of wooden furniture systems, sees the architectural and design community becoming an increasingly powerful force in office planning – "design houses are now far more willing to undertake the total support of the project, from survey, design and supply right through to project man-

*Business Research Associates, 9 Market Street, Stockport, SR12 2AA (tel. 0663.65202).

Michael Willshire

THE ISDN (integrated services digital network) revolution in telecommunications will soon make itself felt in the office. In addition to benefits such as better speech-quality and the increased speed and quality of Group 4 facsimile, it will support a new range of business services.

One of the most promising application is video-conferencing where recent developments in technology, coupled with ISDN, may enable it to become a widely used cost-effective too!

As well as providing face-to-face contact between the one or more people at each end of the link, video-conferencing systems normally incorporate facilities for complete audio-visual presentations. These include the use of "overhead" or 35mm slide transparencies, together with display-

ing documents and diagrams.

Thus, virtually every requirement that one would expect of a meeting is satisfied even — though users are not talking account table.

even — though users are not talking across a table.
Video-conferencing has been made possible by the development of techniques to "compress" the video information so that it can be transmitted via ordinary telecommunications circuits, rather than dedicated, high-speed data circuits.

high-speed data circuits.
Initially, however, in view of
the high cost of the specially
built equipment, the limited
degree of compression then
obtainable and the high cost of
telecommunications paths, it
did not become widely used.

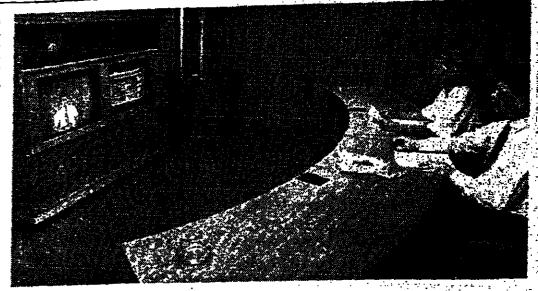
Since then, improvements in technology now enable adequate performance for most business purposes to be obtained from much more widely available, low cost, digital telephone lines.

Additionally, international standards are evolving which will result in compatible systems across the world.

According to Tim Duffy,

GPT's director of data systems "a turning point has been reached in the acceptance of business video communications. GPT has seen growth in video-conferencing in the region of 40 per cent in the past 12 months. Once users can dial-up video meetings as easily as making a telephone call, I believe the medium will become commonplace."

An example of a large company which takes video-conferencing seriously is the Ford Motor Company. It has an international network with links between Detroit, Brentwood in Essex and the company's design and R&D centre at Merkenich in West Germany



Face-to-face meeting via a GPT video-conferencing sui

How new technology connects offices for cost-effective video-conferences

Worldwide link-ups

This involved a large investment in specialised equipment and in suitable telecommunications links. If they were just starting today, the required investment would be appreciably lower

When companies initially consider video-conferencing, if they were not put off by the high costs, their initial considerations are generally concerned with direct savings in the costs such as air fares and hotel hills and so on, rather than in improved business efficiency. They rapidly find, however, that not only is the decision-making process accelerated, information flow between communicating establ

ishments is greatly enhanced.
Where executives have to
travel, for example, across the
Atlantic to attend meetings it
is a very inefficient use of
time. (Putting aside the frequently unspoken desires to
get away from one's office or
even home.) It is impossible to
contact that executive for an
appreciable amount of the trip
while far more time is spent in
travel than in the actual meet-

Furthermore, no matter how carefully one prepares and briefs oneself, almost invariably some points are overlooked. The result being that the meeting is not as productive as possible.

On the other hand, when using a video-conference link, specialists can often be called in without delay to clarify a point. Where technical matters are involved, meetings directly between specialists obviate misunderstandings.

In addition; face-to-face meetings between staff at all levels will enhance co-operation. After all, as it is more re-assuring to deal with a person you know, rather than a faceless voice, video-conferencing can cement relations between establishment where the people are distant in mind as well as miles.

As ISDN becomes widely

As ISDN becomes widely available it will provide the digital circuits necessary to allow dial-up operation of video-conferencing to become more universally applicable.

more universally applicable.

However, even today dist up digital circuits are available from both British Telecom and Mercury which can be used for this purpose and more suitable equipment is becoming available.

Footier this war Betw & Co.

Earlier this year, Bain & Co, the British subsidiary of the international management consultancy installed what is said to be the first dial-up video conferencing system.

Manufactured by Picturetel of Massachusetts, which claims

Manufactured by Picturetes of Massachusetts, which claims to hold over 80 per cent of the world installed base of low data rate systems, it uses the equivalent of two ordinary 64k-bits (digital) telephone lines instead of fixed broadband and satellite links.

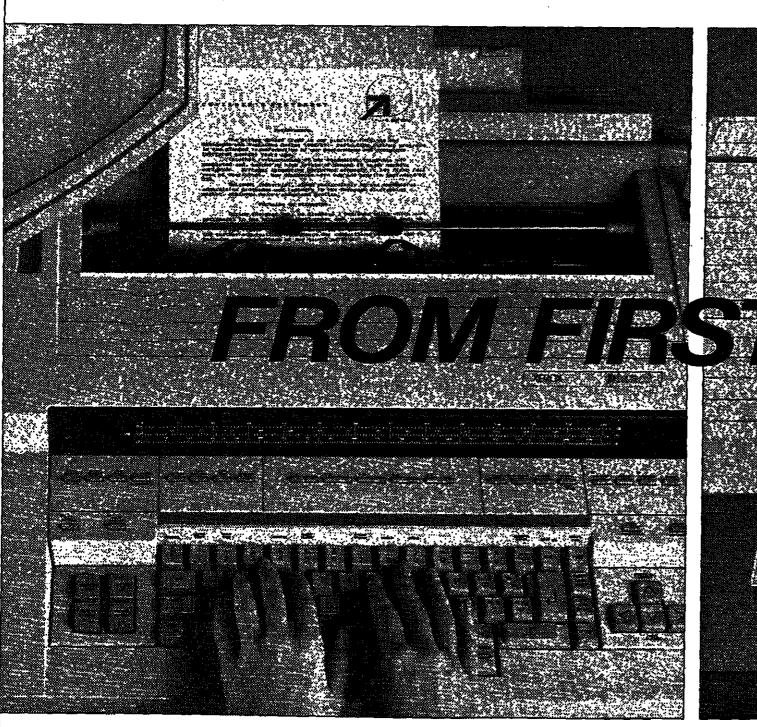
band and satellite links.
As the cost is roughly £100
per hour, once the equipment
is installed, there is no financial barrier to transatlantic
face to face meetings.

Furthermore, they can dialled up as and when needs arise, without any long term planning, because one does not have to book international circuits.

Iain McKeracher, marketing director of Data & Control Equipment, the company which provided Bain with the equipment says that "the financial community has been the first in the UK to use dial up video-conferencing systems. New users will quickly take up the technology for all manner of reasons — besides the obvious savings in travel costs and improductive executive travel time."

Some, according to McKeracher, "already claim that decision-making is made more quickly and effectively." In addition, people's commitment to the actual decision is more positive as they were able to participate in the 'meeting.' This is a vital factor in an increasingly competitive age.

Adrian Morant





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Rank Xerox (UK) Ltd., Bridge House, Oxford Road, Uxbridge UBS 1HS.

Developments in communications and computers now mean that company employees can perform a full day's work either while on the move -using the latest plethora of mobile devices - or from their own home - teleworking or

elecomputing. The tumbling price of elec-tronic hardware has persuaded more and more companies that it is economically viable - as well as technically feasible to operate in this way.

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Central to the so-called "mobile office", for example, is the mobile phone and portable computer or facsimile (fax) machine. The costs of a portable computer, telephone and modem - the device which converts the digital signals from the computer into the analogue signals which are ent over the airwaves - is

Teleworkers can be set up in their own home for a similar figure - they usually rely on a PC, fax or telex machine and a ary bill. telephone and modem.

about £5,000.

Take Mr Romie Carroll as an example: as a food broker he negotiates the price of delicacies as diverse as tinned ham and evaporated milk. He looks over open fields in the Norfolk countryside while he haggles with producers and purveyors over their wares. Mr Carroll is Della Bradshaw on prospects of teleworking and operating from mobile offices

Technology takes more offices into homes

equipped with an Amstrad PC, telex and fax machines and a

He is one of growing number who believe working from home provides the answer to their employment needs. The Henley Centre for Forecasting in London, for example, pre dicts that more than 4m people will be working from home in the UK by 1995, in a full or part-time capacity.

The advantages for the indi-

vidual's quality of life are obvions, but allowing staff to work from home can also bring comorga<u>ni</u>sations long-term financial savings on overheads, such as heating. maintenance and office space, for example. And employing staff away from the main skil centres can also reduce the sal-

In addition, companies find they can often retain skilled staff who otherwise would have to leave for personal reasons - bringing up a family is example. A combination of a shortage of skilled staff and a familiarity with the technology, has meant that - as with the mobile office - teleworking has been pioneered in the computer industry. Large computer companies such as ICL, Rank Xerox and Bull HN Information Systems (formerly Honeywell Bull), all employ teleworkers.

In addition, companies such as the FI Group, a London-based software house, (formerly F International), were set up specifically to employ women working from home. Other companies, such as Synthesis, of Surrey, are now fol-

A teleworking system can be set up for about £5,000

lowing a similar formula. According to the Henley Centre, working from home is suitable for any management or professional tasks which are analytical, administrative or clerical. With most computer companies, the work done is developing or writing software.

orders back to base as quickly as possible. Getting that software back Others accruing benefits to the central office can either include entrepreneurial one-man businesses or anyone needing to transmit written be done with low-tech methods, such as collecting or delivFor anyone that spends just

nalist, for example.

information quickly - a jour

a couple of hours a day in the car, travelling to and from work, the difficulties and cost of setting up a mobile office are unlikely to be justified.

As most fax machines need to run off 240 volts of power, they need a power inverter to work from the car battery, for example. And because they are designed to work in buildings - not cars - they are fitted with a plug to be inserted in the office telephone socket, not the car telephone.

Both working from home and teleworking bring their own problems, however. As well as the technical difficul-ties which often plague such ventures, Carroll warns that those who work alone put there character to the test. "You have to work as if some one is standing over you with a

An increasing number of people are planning to work from home

time clock. If you're fairly lazy and not self-disciplined, then it's not for you."

However, companies that have used teleworkers have demonstrated that their employees actually work harder at home than in the office, because there are fewer distractions in terms of office gossip and tea trolleys.

To ensure that the employee is suited to working at home, companies such as Synthesis ask each applicant to take apsychometric test as part of the interview process, reports Chrystal Gray, chief executive.

And for those that find working at home a lonesome task, many companies, including FI, are setting up work centres around the country where groups of teleworkers can get together to benefit from the social advantages of working in an ordinary office.

That idea of groups working together, but away from the central office, is an idea being promoted by the UK Government to try and regenerate inner city areas. Project Fron-tline, is a scheme to train 500 people in relatively scarce skills, such as data processing. They will then work remotely from inner city offices for companies based in London and

Office relocation and moving the technology

No simple task

BRITISH PETROLEUM, the world's third largest oil group, decided recently to amalgamate its two headquarters (one in London's Victoria, the other in Hemel Hempstead) into one

There were two main rea sons for uprooting the 700 staff involved: firstly, neither of the buildings that BP occupied could adequately handle information technology required; and secondly, the company found the geographi-cal division inefficient in operational terms.

The planning for the move to

the outskirts of Hemel He tead started in 1964 and the building programme began in 1986. By the time the final move occurred, two years later, there was a full team of 13 BP staff working flat-out on move - as well as an army of external consultants and architects. The job of moving staff and 110 computers took ten week-ends to complete, although the size and scale of the BP relocation - and the reasons behind

According to a report by the property specialists, Debenham Tewson & Chinnock, one-inthree of the 100 major office occupiers interviewed were considering a move and 85 per cent of those considering moving gave "company growth" as

it - are not unusual.

Indeed, those companies surveyed in the report expect to grow by 19 per cent up until 1990 while floorspace requirements are expected to increase by as much as 35 per cent.

Companies relocate for a variety of other reasons, says the report, Office Needs: The Occupiers' View. Cost problems with existing premises and expansion or contraction are favourite reasons. In an effort to save costs, many companies such as banks and insurance companies have favoured the partial relocation or the emoval of the back-office function from a high-cost to lower-cost location.

Whatever the reasons, moving offices is like moving house: a traumatic experience for all involved from senior managers to office staff. Ancillary equipment can suffer, too. It is time-consuming and a great drain on financial and emotional resources.

According to John Anderson of Relocation Management Associates, the upheaval "is dling a move in-house can be a

Moving is a huge capital investment and management should know precisely what they are doing and budget properly – which they very often don't do. The thing about moving is that it brings out the worst in everybody if not han-

dled properly As well as clear forwardplanning with time and cost contingencies for those unforeseen events, open and effective communication with staff is something that can be overlooked. As Philippa Vernon-Company points out: "All staff have a gripe about something - and management don't think that through when plan-

ning a move." She maintains that while the management worry about the amount of floor space per workstation, they should also consider the psychological effect on staff — "they will be degreeate to know how to get to the new building, where the

More consultants are entering "the moving business"

supermarket and sandwich shop are, and how the office vending machine works." As with the domestic move.

it is easy to under-estimate the amount of preparation needed, the costs involved and the mental toll. The difference is that - unlike a domestic move when the new home-owners can eat their sandwiches of the top of the packing cas several days - offices have to carry on functioning. Downtime cannot be allowed to be part of the working vocabu-

With so much at stake, what are the best ways of attempt: ing such a monumental heaval?

Many companies feel that they have the resources in-house to cope with such an undertaking. The responsibility may fall to the facilities manager; but it could also be the office manager, financial director, and for the smaller firm with 80 staff or less, the managing director.

"However," advises Tad Zurlinden of the Relocation Management Association. "han-

short-sighted decision. Management need to ask themselves: has the person put in charge of such a job actually done it before? The chances are they

But along with finding the

right experts and shifting the technology, there are people to consider. Will there be a pool of staff available in the new area to which you are locating? What will be their wage expectations? What is the situation regarding tax relief on relocation expenses? Will the interior design of the new office be to a standard that will induce the existing staff to

place? The rising levels of complexity in the office move have attracted a variety of other spe-cialist organisations who claim to offer a one-stop, "solve-all"

want to go there in the first

relocation service. Design consultancies such as McColl, Business Design Group and Fitch-RS, for instance, will bolt-on a relocation service as

part of their design package Invariably computers will be considered too delicate and risky to be moved by the company themselves. It is usual for either the computer manufacturer/distributor to be called in to de-commission equipment or to job handled may by a tech-

nology specialist. But aside from design and computer consultants, management consultants have moved in on the business of moving. Organisations such as Relocation Management Associates regard relocation as the very stuff of management consultancy: this company comprises 26 management consultants who specialise in moving — clients are offered a master checklist with more than 68,000 headings, covering the entire

And then there is the new breed of moving specialist: the dedicated relocation company. The Office Relocation Company, for example, will handle all the administration, organise the supplies, source furniture and even find art for the walls. It will even arrange the moving in party - but as any-one who has recently experienced an office move will tell you, companies are often too exhausted to celebrate when they finally make it to the new

Wendy Smith

New ways to transmit text

Continued from page 5

information from head office to its 1800 strong chain of book-

The IGG Data-Text, which combines advanced technology with the established TV broadcasting system, was chosen in preference to autodial mode post, telephone, fax, telex and courier because it offers instantaneous and simultaneous message transmission to any number of locations, capital costs are lower and transmission costs remain the same no matter how many receivers are

being used. By the mid-to-late 1990s, when the universal ISDN (integrated Services Digital Network) is fully implemented in

vices including telephone, fax, telex, audio and video conferencing on line databases, data and text broadcasting and EDI (electronic data interchange).

The various communications authorities and manufacturers are hammering out the standards that will make that possible from the desktop. The one most pertinent to electronic mail. and the first to be agreed is X.400, the CCTTT recommendation for linking computers of different manufacture to enable them to exchange mes-

couple of months ago, was the X.400 API (applications proall major countries, we are gram interface) gateway stan-

promised single-line interactive communications between all kinds of communications sermail system s to actually swap correctly formatted mes Much of the future success of electronic mail will, then, no longer depend so much on

compatibility standards but on

user interfaces, i.e. the soft-ware that determines the ease

and speed with which services and facilities can be accessed from desktop terminals. Such solutions, however, will be heavy on computer nory; a PC equipped with a modem and simple communications software just will not suffice. Thus, there is bound to

be a growing demand for more powerful workstations That will lead us all more into the realms of true office

automation where users not only want to manage diaries, schedule meetings, access the various text communications and information services but want easy transfer of editable documents on a national and international basis.

ering the completed disk, or by more high tech methods – via

the telephone line. A telephone line and a modem or the public

packet switched networks, ded-

icated to data traffic, can be used for sending chunks of

For workers who need to

have continual access to infor-

mation held on the corporate database, a dedicated line can

be set up, with software at either end to ensure the secu-

rity of the data.
For individuals who have set

up a mobile office, the commu-

nications link is provided over

the radio waves, through the portable or car telephone. In

the UK there are already over

500,000 carphones on the two

cellular radio networks, and

the figure is growing rapidly.

Computer companies, such as IRM in the UK have been

among the first to equip their

salesforce with devices to com-

municate with head office from

their cars, such as for sending

data back to base.

Here, yet two more agreed standards, ODA (Office Document Architecture) and ODI (Office document Interchange Format), will be important in the years ahead for they pro-vide a common understanding of logical structure (i.e. paragraphs, chapters, address, adlines), layout structure (number of pages; page format) and content portion (text, graphics and data).

Julie Harnett the South-East.

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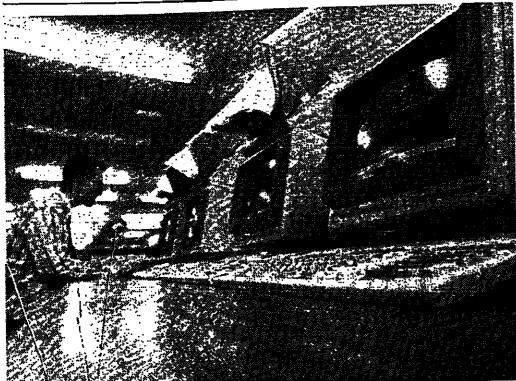
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TECHNOLOGY IN THE OFFICE 8



MINI COMPUTERS perform a wide variety of applications throughout industry, both in public and private sectors. Pictured here are Hewlett-Packard's HP 3000 mini computers. The company this year moved

into the number one position as America's "most admired computer company" in Fortune magazine' annual corporate relations survey, after a poll among nearly 8,000 senior executives and financial analysts.

PC FAX is a new buzz-phrase in office technology. While, on the face of it, PC fax appears an exciting development for computer-users, in practice it could be more trouble than it is worth. True, it saves having to print a document in order to fax it; confidential faxes are automatically stored on receipt; and it is easier to use a PC for storictg

destinations numbers But, with most 1°C hoards, you have to convert your documents in to AS CII for transmission and ti sat can be inconvenient; and, if you want a hard copy of a message, you have to use the PC printer and that will take far longer than

a fax machine Another drawback is that you cannot send pre-drawn graphics images unless you enter them into the PC using a scanner, and then you may

as well buy a fax. If, however, you only need to transmit word processed or PC-processed information, then a fax board may be a more cost-effective solution if you have a workstation with sufficient memory capacity. But look for one that comes with menu or icon-driven software that is really simple

A puzzle over **PC** fax

One danger concerning the phenomenal growth of fax, highlighted by Meredith Fischer of fax network specialists, Pitney Bowes, is that many organisations are beginning to take fax for granted, thinking of it as a very low-risk purchas

However, as has been shown in the personal computer marketplace, uncontrolled purchasing at departmental or office manager level could eventually be a cause of major concern, with telecommunications costs escalating beyond sustainable

A simple solution being launched by Certacom at the TMA exhibition (23-25 October at the Metropole, Brighton) is the Fax Manager, a central switch which manages the fax traffic and provides full call-logging and destination records with time and date stamp and with all message

going through the system being archived. However, Pitney Bowes recommends that organisations with a large number of fax machines already in place should undertake a fax audit first:
"We will even do it on their behalf completely free of charge," says Meredith Fischer.

"You need to know who users are communicating with how many pages they send a day, what they are spending hone systems and the type of telephone systems being used. You have to look at time zones of message destinations and a whole raft

of other aspects.
"Then and only then can you determine the best solution, le where you need memory machines, who needs confidential mailboxes, where you need to prevent junk mail and which of the word processing operators only transmit fax messages and would be better off with PC board than a fax machine. "I believe there are many hidden networks out there and organisations should take

stock now, before more office managers go off buying fax machines willy nilly." Julie Harnett



Case study

Technology cuts through the paperwork

IN SPITE of the availability of computer systems, microfiche and image-processing, surveys in the US show that 94 per cent of corporate information

remains on paper. Paper-based administration often cause delays in the financial services sector, although commercial success in the increasingly competitive mortgage market, for example, depends on a good range of products backed with a first class customer service. In the race for the right property, borrowers expect rapid answers from their chosen

These were the challenges facing Hammersmith-based Citibank Mortgage, part of Citicorp, the worldwide banking group. A review of methods revealed that more than 35 per cent of customer file requests could not be met without some delay and none within 24 hours from the

off-site storage facility.
In addition to the difficulties of tracing files already issued, Citibank Mortgage felt that its-customer service operation was being gradually undermined. Several options were considered by Citibank's senior management. On-site storage was ruled out by lack of space. Microfiche would have solved the space problem, retrieval delays and was

expensive to keep up to date. Citibank then evaluated Document Image Processing (DIP), a technology reviewed in depth on page 4 of this survey. As well as overcoming file retrieval and storage problems, DIP also offered Citibank additional processing benefits. Its availability to control paper flows was considered an important factor.

Several DIP systems were evaluated - with the final choice going to Olivetti's FileNet system, pictured above, centre. Installed in August last year, the system cost over £1m and now covers several areas including mortgage application, customer correspondence, funds transfer, insurance and redemptions.

Based around an optical storage and retrieval 'jukebox' with a maximum on-line canacity of 85m pages, the application uses "Workflo," a powerful high-level language used to manage information-flow to, through and from the system.

All documents are scanned and indexed on arrival and are subsequently available for simultaneous inspection within 20 seconds, on request. Over 200 mortgag

applications a day can be



PICTURED here is the control centre of Securicor Granley in Manchester. The equipment used here is from TR Financial Communications, the business

communications specialists. The group, a subsidiary of the TR Group within Cable and Wireless, has 200 sites in the UK, and is increasingly involved in security industry applications, as well as communications for police and ambulance control centres. These sites use the ViAX telephone system, as described on page

processed, standard replies

generated and information

exchanged with Citibank's IBM 3090 mainframe computer.

Some 52,000 A-4 pages can be

disk – around 2,900 customer files. According to Citibank's strategic Systems director, Mr

Brian Howells, the DIP system

was "immediately accepted" by the staff and is giving

significant process benefits.
High acceptability,
ease of use and improved

control procedures have all

service. Productivity figures from the six Citicorp DIP

installations in the US have

Olivetti DIP systems in the

Building Society for mortgage operations, British Telecom Mobile Communications

customer services department

as well as the press-cutting

libraries of several national

UK include the Britannia

of about 40 peri cent are possible. Other users of

suggested that efficiency gains

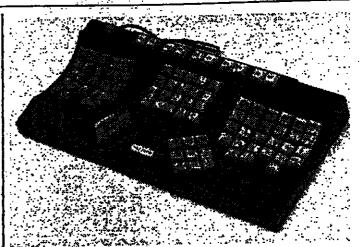
led to improved customer

stored on one 12 inch optical

3 of this survey. -TR Financial Communications, formed in 1984, is now the second largest supplier of dealer boards in the UK, second only to British Telecom.

British Telecom.

The company, which is based in the London industrial Park, Beckton, East London, has a turnover of around \$10m. It distributes and supports VBand communicastions equipment and Multiview digital feed and decision-support software packages, together with an integrated video-switching system.



☐ With the growing incidence the board reduces the strain interest is being shown in an ergonomic keyboard, above, developed over the last ten Molesey. The usual Qwerty

of repetitive strain injury suf-fered by keyboard users, new board design - these strains are the root cause of the pain and RSI, claims Malton. The new board fits the natural years by Maltron of East shape of the hand and users can master the system with letter-layout is retained, but only a few hours' practice.

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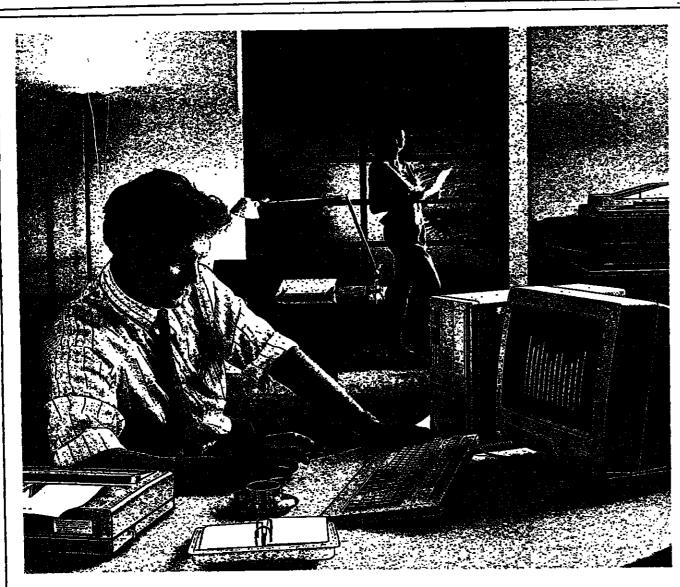
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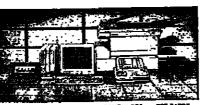
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FINANCIAL TIMES COMPANIES & MARKETS

Monday October 23 1989



INSIDE

Scientific soldiers man the thin red line

While bigger groups re-position themselves to take a bigger share of a stagnant defence equipment market, medium-sized companies face hard choices. Do they get out of areas where the cost of keeping up is too high? Do they try to make their niches more secure? Do they go for international links to gain entry rights to other Western markets? United Scientific Links to other Western markets? United Scientific Links to other Western markets? tific Holdings was one such UK company trying to resolve such dilemmas when last month it became subject to a hostile bid. David White looks at the ups and downs of this one-time star of the defence business. Page 26

Sizeable handicap for IBM



Announcing a 30 per cent fall in IBM's quarterly profits last week, chairman John Akers ment sought to convince shareholders that, if they remained faithful and trusted management, all would be well in the long term. This view, however, contains an implied assumption that while the ingredients of IBM's business may be changing, the master recipe remains as sound today as it was in the past. A less sympathetic analysis might conclude that soufflés do not rise twice. Indeed, the once invincible IBM today looks open to some of the more telling criticisms levelled at Britain's BAT, writes Guy de Jonquières. Page 46

Saab searches for a European co-driver



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Sweden's troubled Saab-Scania company is agreement with a major European car maker, filer the collapse last week of its talks with Ford of the US on joint co-operation, Flat. of Italy, and Peugeot, of

France, are believed to be having separate discussions on a possible deal with Saab-Scania, the car division of which looks set to lose over SKr1.8bn (\$280m)

this year. Robert Taylor reports. Page 23 **Market Statistics**

Başe lending rates Euromatket turnover FT-A World indices FT/AIBD int bond syce Nippey starters
New int bond issues
NEW Tokyo bond index
US money maded rates
US tond prices/yields

Companies in this section

UK Automotive Products Jaguar Jantar Midland & Scottish Optim Group Systems Reliability

Oversezs BNP 25 BNP 25 Credit Suisse 26 Credito Romagnolo 25 Ericcson 25 General Motors 25 Hoffmann-La Roche 25 Saab-Scania Southwestern Bell

The first of Norway's financial longships

To compete at home and abroad two of the country's top three banks plan to merge. Karen Fossli reports.

he planned merger between Bergen Bank and Den norske Creditbank (DnC), two of Norway's top three banks, to form Den norske Bank (DnB) is the single most dramatic event in Norway's 130 years of

banking history.
It will create Scandinavia's seventh largest bank with combined assets of NKr210bn (\$30bn). Today the boards of the two banks will consider proposals for the exchange and valuation of their shares, the first stage in implementing the merger plan which was announced earlier this month. It subsequently received a public endorsement by Mr Gunnar Berge, Norway's finance min-

ister.
This endorsement paves the way for a radical reversal in government policy which traditionally has sought to limited the size of Norwegian banks in the interests of promoting domestic com-petition. Today, however, the need to strengthen financial institutions - weakened by heavy loan losses in the past three years — so that they can compete more effectively at home and abroad has triggered the

change in policy.
Scandinavian banks in general are worried about the competi-tive challenges they face as West-

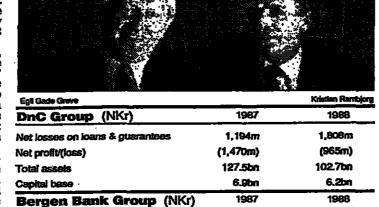
ern European financial markets become more closely integrated. After experiencing their roughest period since the 1930s Great Depression, Norway's banks are particularly concerned for they are poorly placed as 1992

With a population of only 4.2m, part of the problem has been the limitations of an "over-banked" domestic market. In addition, the operating costs of Norway's top three banks, caused mainly by a high rate of inter-bank trans among customers, are the highest of the top twelve Scandinavian

One of the principal advan-tages the two banks see in the merger is economies in this area. They claim that the merger will allow total operating costs to be reduced by between NKr500m

and NKr750m annually.

But the prospect of reducing their costs base has only been one factor which has led the institutions to seek to strengthen their position through a merger. Norway's oil-dependent economy was ravaged by the plunge in world crude prices in 1986. The domestic recession which followed led to a surge in loan losses, beginning in the oil service industry, but spreading throughout the economy. The



past two years have seen record levels of commercial and personal bankruptcies and the banks are expecting their loan losses to

continue for at least another

Fetimated losses on loans & guarantees

Net profit "

Capital base

overall level is diminishing. 1989, estimates of losses on loans and guarantees are NKr994m for Bergen Bank; NKr911m, for Christiania, the country's biggest

1,178.6m

43.4m

106.7bn

7.05bn

502,6m

210.9m

99.3bn

bank, and NKrl 39bn for DnC. Faced with these problems and the challenges ahead, executives of the top three banks have warned throughout this year that individually they will seek part-ners — preferably in Norway, or, reluctantly, more widely in Scandinavia - to try and strengthen their position.

The merger between Bergen Bank and DnC has nevertheless raised questions about the timing of such a bold move.

"The merger comes at a time when each bank is seeking to recover from a period of financial difficulties with credit losses at very high levels by international standards. The extent to which there are lingering financial difficulties may reduce the time that management has to successfully execute the merger," believes

Standard and Poor's, the US-based credit rating agency.

Mr Egil Gade Greve, chief exec-utive of Bergen Bank, will head
DnB and Mr Kristian Rambjoer, head of DnC will become his dep-

Mr Rambjoer, has already been through the experience of slimming down an overweight institution. In the past year he has successfully turned around DnC. He shed 1,200 staff and improved operating profitability three-fold

to NKrl.15bn in the first eight months of this year. In 1987, the bank suffered an operating loss of NKr254m.

A concern is the task of integ-rating the two banks' overlap-ping domestic and international operations. But this will be made easier because the banks have compatible computerised data systems. Moreover, on the domes together quite well. Bergen Bank is mostly in the western and southern regions of Norway while DnC is mainly in the east and north.

Oslo, however, presents a big-ger problem for there is a large overlap in centrally located bank-

ing operations.

By early-December, the next step in the link-up, a final merger proposal, will be presented to shareholders at extraordinary general meetings. DnB is meant to become one financial unit from January 1, 1990. But the merger process is not likely to be fully completed before 1991. DnB will face the formidable task of improving its core capital and quality of assets. Currently, there is no Norwegian bank which can meet the Bank for International Settlements Cooke Committee requirements for equity ratios.

The US lobbies overreach themselves

irst, a straw in the wind. Nearly a year after its elec-L tion victory, the Bush administration still has 77 vacant senior posts for which it has not even nominated a candidate. Last week it got around to offering a medical appointment to the brother of Senator Robert Pack-wood, a powerful Republican who has played his own interesting part in the events of the last few

days. What, Dr Packwood was asked, was his attitude to abortion? If was his arritide to abortion? If that was the question, he replied, he wasn't interested in the answer, they had better look for another candidate. The abortion thing, as the President no doubt calls it, has emerged as the domi-mant political issue of the fall; it will probably be decisive in many will probably be decisive in many pending elections at the State elections, too. State victories could give the Democrats enough votes to ensure that the electoral re-districting which is required to reflect population shifts will not give the Republicans the advan-tage they expected. That would affect the political balance for a

generation.

Dr Packwood's contempt is a perfectly apt comment on this Bush obsession, but it does not explain how a US government which is facing huge challenges

for goods produced in the South East because of increased transport and labour

Taxpayers throughout

Britain have also been obliged to pay for new roads in London or regional bonuses for school

teachers and civil servants in

The Government's policy of raising short-term interest rates to combat inflation will not solve these problems, Prof

Lewis argues.

Congestion in the South East
will continue to exert "its mas-

sive long-term inflationary pressures" and will get worse with completion of the Chan-nel Trunel.

Prof Lewis proposes creating

a second capital region far enough from London to act as

the South East.

in defence, foreign and domestic policy has got sidetracked so dan-gerously. This in turn is part of a larger question — the awful banality of US politics at the moment. This has provoked one of those apocalyptic questions which Time Magazine likes to ask every decade or so - "Is Government Dead?"

This question, which has been dominating the news-stands for the past week, echoes another which Time raised in the permissive '60s: "Is God Dead?"; and the answer to that question was that fundamentalist religion was just starting to make a comeback. Fundamentalism is in retreat, thanks to the scandalous behav-iour of some of it best-known evangelists, but the abortion issue remains as its monument.

The political wing of funda-

majority, was one of the most effective parts of the right-wing coalition which helped elect President Reagan, and was mobilised again last year by Mr Bush. The right-to-life movement still has the fervour and the grass-roots power which the broader movement seems to have lost, but it does not have majority support: its success has provoked a counter-revival of feminism.

The result could hardly be

worse for the White House. The

right-to-lifers can swing enough votes to push some of their sympathisers to victory in Republi-can primaries; but the same con-victions threaten to defeat these candidates in the elections. Mr Bush, a prisoner of his own right-wing rhetoric, can only squirm.
It would hardly be worth draw-

ing your attention to this American tragi-comedy if it was unique; but in fact it says a lot about the whole American system. US political candidates must win primary elections among their own supporters, and then depend upon heavy private financial support to win the subse-quent television campaigns. This combination makes American candidates more dependent than politicians in any other country on organised lobbies. It

leadership, the political agenda is set by special interests. Some years ago Professor Man-cur Olson argued that this is the fate of all systems, and explains why political success carries the seeds of its own decay, since it creates the soil in which lobbies

national crisis, or strong national

This is persuasive reading in Washington; but to a foreign observer, it looks more like a spe-cifically American diagnosis. Living in a city where registered lob-byists are numbered in tens of thousands, reading newspapers where defence contractors buy full-page advertisements to try to get Pentagon decisions reversed, get remains decisions reversel, attending dinner-parties which are all about influence-pedding is a strange, specifically Ameri-can experience.

It is hardly a new one, either. American history is peopled with triumphant special interests the railway barons, the trusts of the later nineteenth century, the oil interests which brought down President Harding; and all of them were in the end defeated by the system itself. On this reading we should look not for a one-way process of decay, but for a cycle, in which special interests advance until they overreach themselves, and are driven back.

seems to have reached this point, and it may not be the only one. The military-industrial lobby, which thrived during the cold war just as President Eisenhower feared it would, now looks likely to be defeated by detente and

budgetary constraints. Nearer home, the Wall Street lobby, which has so successfully pushed for deregulation, is now at least shaky, as LBOs are now seen as undermining US industry and its financial structure, and

those in Congress who spoke for the thrift industry are under investigation. The most powerful of all current lobbies, and potentially the most dangerous, is the old-age lobby, the American Association of Retired Persons,

or AARP, some 25m strong.

It is this group which has blocked the taxation of social security benefits, a sensible pol-icy supported by the Budget director, Mr Richard Darman, and the chairman of the Council of Economic Advisers, Dr Michael Boskin, who would be an unbeatable alliance on most issues. The grey wolves, as the retired are known, scored another triumph last week with the abject repeal in both houses of the catastrophic health insur-ance scheme. This was enacted only a year earlier to ensure that for serious illness without becom-

ing paupers.
This could be another Pyrrhic victory. The repeal was secured by a write-in campaign by the more affluent among the retired, who resented having to pay a surtax of up to \$800 for benefits they already enjoyed from pri-vate health insurance. Only now are the poorer, uninsured majority waking up to what has been done to them.



By Anthony Harris in Washington

conclude that Congress is now ready to complete the lobbying cycle, and stand up for the general good against special interests, it is at least possible. The crises of privat insurance and the defence bur den will continue to demand attention, and all argue for a reaction; and Congress is beginning to show just a little spine.
It did so this week when it voted down the President's proposed constitutional amendment to protect the flag, a pure piece of gesture politics, and offered another Packwood straw in the y waking up to what has been wind: Senator Packwood, a spon-one to them. wind: Senator Packwood, a spon-sor of the measure, voted against it, citing the Bill of Rights.

Economics Notebook

Questioning the currency of Lawson's Much-Binding view

House speech last week con-firmed that the Chancellor will press on with his plan for competing currencies when Euro-pean Community economics and finance ministers meet again next month. He lifted the veil sufficiently

to underline that the essence of the British alternative to Mr Jacques Delors' idea of European economic and monetary union based on a single European currency and central bank was permissive, not man-

bank was permissive, not man-datory.

"This is not a matter, as some have fancifully suggested, of requiring the vil-lage shopkeeper in Much-Bind-ing in the Marsh to accept pay-ment in drachma," the Chancellor said. "He would be as free to decide what forms of cash he will accept as he is to cash he will accept as he is to decide whether or not to accept a particular credit card."
Although Mr Lawson said

the plan would give Governments "every incentive to min-imise inflation," Britain's European partners remain overwhelmingly sceptical about it. Some of the arguments that can be marshalled against the

competing currency plan appear in an article by Christopher Allsopp of New College, Oxford, and K. Alec Chrystal of the City University Business Review of Economic Policy.

While they say that adoption of the competing currency idea could result in one currency becoming universally accepted in the FC they owns that "in in the EC, they argue that "in reality, it would be likely to lead to a multi-money system

system."

Multiple monetary standards

which increases transaction

costs enormously and lowers the efficiency of the market

would pose other problems.
"Having several monies in par-allel use is even less desirable than having multiple weights and measure systems in opera-tion," the two economists say. Although Mr Lawson believes retailers should be able to cope with his plan, Messrs Allsopp and Chrystal raise other diffi-

cult questions.

They ask whether companies could choose their reporting currency. Would stock exchanges have to quote in 12 currencies simultaneously? And would governments accept tax returns and payments drawn up in any EC currency?

Regional strains

While Mr Lawson sees his competing currency idea as a weapon against inflation, some economists argue that Britain will be unable to overcome rising prices unless it tackles the North-South divide.

Writing in the September issue of the Royal Bank of Scotland Review, J Parry Lewis, Emeritus Professor of Economics at the University of Manchester, urges the Govern-ment to create a second capital region as an alternative focus for growth to London and the South East.

According to Prof Lewis, the recent strong growth of the south east spreads inflationary pressures throughout Britain. Higher wages for workers in the London Docklands and Channel Tunnel developments attracted labour from elsewhere in Britain causing regional shortages and rising wages in areas remote from the South East.

Congestion in the South East has also generated additional costs which spread outside the region.

These include higher prices

having recovered from the dra-mas of last week, face another daunting hurdle tomorrow when the September trade fig-ures are released.

July and August, the markets are hoping to see a distinct improvement in September's data. A sharp fall in September car sales, a reduction in stock levels by companies, and an increase in oil exports, are all expected to contribute to a bet-

compared with the £2bn

City analysts have warned that if the deficit is anywhere near £2bn, the pound could

enough from London to act as a counter-magnet for growth.

Not surprisingly, given the publication in which his ideas are aired, Edinburgh and Glasgow are named, along with Newcastle, as possible candidates for expansion into a metropolitan area of four or five million people.

To help the process along, he suggests that the South East should be left "to stew." There should be no new spending on replies from British business received after the latest interest rate rise.

should be left "to stew." There should be no new spending on easing traffic congestion or improving services such as the post or hospitals in the South East. In that way, people and businesses would be more ready to relocate to the North. Prof Lewis's scheme must be a political non-starter. But his ideas on congestion and inflation merit some reflection. cent.
In the US, the advance estition merit some reflection.

Especially telling is his contention that, "every pound spent easing congestion in the South East makes it worse and adds to rising prices more than

Peter Norman today's preliminary consumer

it would if spent elsewhere."

THIS WEEK

UK FINANCIAL markets,

After the shock deficits in

ter trade picture. The consensus of analysts' forecasts, compiled by MMS International, the financial research company, is for a current account deficit of £16bn, (\$3.1bn) trade shortfall recorded in August.

come under renewed and heavy selling pressure in the currency markets. If intervention by the Bank of England subsequently failed to halt sterling's decline, the pressure on the Government for another rise in interest rates to protect the currency would intensify.

The Confederation of British Industry's (CBI) survey of industrial trends is also released in the UK tomorrow. The survey will be closely watched because it will include

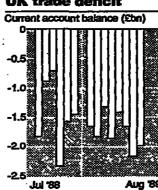
The City expects the survey to show a considerable down-turn in output expectations and investment plans, and that confidence has been sapped further by base rates of 15 per

mate of gross national product (GNP) for the third quarter of this year is released on Thurs-day. The MMS consensus is for a 2.4 per cent growth, com-pared with 2.5 per cent in the second quarter. The important set of figures

in West Germany this week is

prices data for October, which

UK trade deficit



could provide a focus for fears of accelerating inflation. The figures are expected to show an increase in consumer prices month running, taking the annual rate of growth to 32 per cent. This would be the highest inflation rate in West Germany seen this year.
Other events and statistics published this week (with MMS

International consensus in brackets) include: Today: West Germany, export and import prices for September. France, trade bal-ance and consumer prices for September. Canada, retail sales

Tomorrow: UK, building society receipts (£4bn) and cyclical indicators for September. US, durable goods orders (down 1 per cent) and ship-ments for September. Wednesday: UK, construc-tion/new orders for August. West Germany, weekly money supply figures and wholesale turnover for September. Aus-tralia, balance of payments September. US, existing home

for August.

sales for September.
Thursday: US, import/export prices third quarter 1989. West Germany, Bundesbank council

Friday: US, personal income and consumption for Septem-ber. Japan, current account, consumer prices and preliminary industrial output for Sep-

Société Générale de Belgique - Generale Maatschappij van België

has sold its interest in

Pieux Franki S.A.

Van Roey N.V.

The undersigned acted as financial adviser to Société Générale de Belgique in this transaction.

Dillon, Read Limited

October 1989

INTERNATIONAL CAPITAL MARKETS

INTERNATIONAL BONDS

Fixed-price reofferings bring a little clarity to muddied waters

AS THE WEEKS go by, the duct this type of business for a a traditional fee structure and muddled waters of syndication profit, even if fees are inevita- was dismayed to see its practice on the Eurobond market are hardly becoming crys-

As deals are let fly, however, syndicate managers have been alert to changing patterns and are beginning to see the rough outlines of which way the busi-

Take the primary market for sovereign borrowers, for example. The undoubted success of Italy's \$1.5hn issue, brought as a fixed-price reoffering by Mor-gan Stanley, followed the initial experiment by New Zea-

Both deals have traded extremely well in spread terms, so much so that it is not too early to suggest a general market rule for such borrow-ers: fixed-price reofferings make sense and will become the normal underwriting and distribution method.

The rule makes several assumptions. It assumes the funds are wanted on an unswapped basis, and that the horrower understands and is happy with the market risk that the structure involves. It also assumes that future deals will be large, at least \$500m, but probably \$1bn or more. This suits institutional investors because they gain a liquidity benefit on top of

everyone else in the primary The borrower should be happy because with large issues it needs to tap the market less frequently, implying lower administration and legal

knowing they are paying the same price for their bonds as

On the evidence so far, reoffered deals also trade very competitively, setting benchmarks for future funding. Researchers at UBS Phillips & Drew have looked at the volatility of issue spreads against Treasuries, and found that reoffered deals appear to be less volatile than traditional

Although the research is still tentative, it looks as if reof-fered deals may benefit from quicker placement into firm hands, with less paper held by trading accounts.

Finally, underwriters, at least the largest ones, have the rare joy of locking in a fixed fee. They know they can con-

profit, even if fees are inevita-bly squeezed by competition from their current levels. They can pre-sell the paper to investors and gauge progress via the better discipline of the formal

Smaller underwriters, as well as some leading houses which have better origination than distribution capabilities, are less pleased with the pros-pect of the reoffered sovereign rule. Small houses tend to be ignored when the tighter reof-fering syndicates are formed. Already the Eurodollar market is looking more dominated by institutional investors, with

retail clients finding it hard to buy their small slices of reoffered deals. What really intrigues is the application of the reoffered concept to the non-sovereign Eurobond market. Deals with swaps attached require precise timing to catch the arbitrage window open, a precision disal-lowed by the need to price a reoffered deal by consensus. In addition, many corporate

names have random funding requirements, and treasure the ability to tap the Euromarket's responsive liquidity.

However, the corporate sector of the market is in a mess, with wide spreads on second-ary paper making it difficult for borrowers to meet funding targets. Even deals for the bluest of blue chip names have struggled when they have been syndicated along inappropriate or unclear lines.

A case in point was last week's Ecul25m deal for IBM International Finance, syndi-cated as a hybrid reoffering. Paribas brought the deal with

> EUROMARKET TURNOVER (\$m)

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USS Prev Other Prev	11.3 11.7 27.8	25.4 3 80.8 2 16.2 3	70clay 1,129,8 5,122,4 1,303,1 1,349,7	Total 45,455,2 36,903,2 59,119,3 60,821,1
Week to	October 19,	1989		

was dismayed to see its attempts to control the distribution through a voluntary reoffering collapse as syndicate members broke ranks. A \$400m deal for IBM Credit Corporation syndicated tradi-tionally by Goldman Sachs the

previous week also had a rough time, performing poorly in spread terms as traders said it was insufficiently placed. US corporates are natural users of the reoffered system. and willingly accept the obvi-ous principle that underwriters should be paid for conducting their business.

However, shifting patterns of placement and investor demand make the Euromarket very different from the US domestic market. Some corporate borrowers are beginning to think that there is more value in their domestic market

while Euro-spreads are so In its inimitable fashion, the Euromarket, for the time being, will probably fudge the issue of which corporation launches what and how. While it is possible to see tighter fees, it is not yet clear what else is lurking in the wings.

Andrew Freeman

US DOLLARS

Sumitomo Metal Minino 44

UAL AND THE BANKS

A deal that dented Citicorp's reputation

IT WAS NOT one of Citicorp's happiest weeks. Blamed for the failure of a \$7.2bn financing for UAL that has called into question the profitable leveraged buy-out business and that threatened for a time the stability of the world's stock markets, the New York bank's name was mud on Wall Street and elsewhere.

In the opinion of many bankers, the deal it failed to arrange was flawed. Citicorp, on its own or on its client's bidding, attempted to squeeze too much from international banks at a time when the omens for doing so were not at all good.

On top of that, the way the financing was being arranged worried bankers, offering the prospect of a free-for-all as banks tried to scale back their UAL exposure by selling loans to other banks.

In the first place the pricing of the loans was too tight at the publicised 2 percentage point margin over money market rates, particularly for a deal in which there was no cushion of subordinated junk" debt to comfort bank

This was a misjudgment at a time when bank supervisors around the world, particularly in the US and Japan, were crawling over the books of banks with exposure to leveraged buy-outs.

While Japanese banks took most of the heat for the deal's failure - and it it is hard to believe they were acting individually in rejecting the terms almost no large US banks agreed to join it. Less publicised, this was just as critical in leading to the collapse of the

Banks were also worried that the price tag on UAL was too high, and that the deal had the makings of a public rela-tions disaster: trade unions were opposed and the top people at UAL were taking out

millions, while employees were being asked for pay cuts. On top of all this, the success of the deal appeared to depend entirely on a rosy economic outlook in the US - far from a universal view these days - and robust traffic

The way the financing was being sold to other banks also courted disaster. Citicorp had agreed to lend \$2bn and Chase Manhattan, as co-arranger, \$1bn, with the remaining \$4.2bn to be raised mainly in \$500m to \$1bn chunks from

But banks being asked to join the deal were told that they would have to syndicate their exposure on their own.

NEW INTERNATIONAL BOND ISSUES

There would be no central syndication, as is usual in most such deals: Chase and Citicorp would run a joint book, while the others would fend for themselves. As the Japanese banks sounded out smaller banks to see if there was a market for the loans, some said they found Citicorp had already attempted to do the

This lack of discipline contrasted with the way in which \$13.65n in senior bank loans were arranged to help finance the \$25bn buy-out of RJR Nabisco. Ironically, Citicorp and Chase were part of the four-bank group that co-ordi-nated this, along with Bankers Trust and Manufacturers Han-

Syndication of the RJR Nabisco senior loans to the first tier of banks was co-ordinated centrally, as is common. However, because of the size of the deal, subsequent sales of loans to smaller banks were also tightly controlled, which is highly unusual. For some time any loans sold were deducted from all lending banks' exposure on a pro-rata basis, not just from the exposure of the selling bank. This successfully avoided the banks' aggressive distribution teams running over one another's tracks in efforts to sell loans.

Some bankers believe that the technique used by big US banks, of selling on large slabs of exposure to other banks, has worried the Japanese. Some banks are conscious that they sit with much of the exposure to LBO deals in the US, while those banks that have arranged the financings retain very little. In these circumstances, they argue, the hig banks arranging the loans

have little long-term stake in the deals. There is no doubt that Citicorp's reputation has been: dented; the more so because this is the type of deal it usu-

ally does best.

But the flop is of greater significance because it may mean that large leveraged buy-outs, certainly the most dramatic innovation in US corporate affairs in the 1980s, will not survive into the 1990s.

The big worry is of contagion: that because one deal has problems, banks pull back from all similar ones. Thus, when Mexico declared it could not service its foreign debts in 1982 the banks shrank from lending to any Latin American

Some banks are taking just this view of leveraged financ-ings, and have quietly pulled back from lending. Most others say they will scrutimise deals

more closely, but have not closed the door on the possibil-

If this is the case, the ques-tion then follows of how many deals can be done which can satisfy the requirements of both holders of debt - the banks and any junk bond investor who might still be around - and the equity participants in any transaction.

Because of the heightened sensitivity that holders of debt have to the risks of such deals, they will demand higher

If the debt holders get more the equity holders will get less, which is why the stock market where valuations have built in an active LBO market – was behaving rationally when it tumbled following the UAL

Because of the higher price of debt some leveraged buy-outs "at the margin" will not now be arranged: the demands of equity and debt holders will

The central question being pondered in banks, securities firms and investment institutions last week concerned the width of that margin and whether it will allow any more such deals in the foreseeable

Stephen Fidler

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Keihin Elec.Rail.♥	150	1993	Ā	(4)	100	Yamalchi Int.Europe	*
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AUSTRALIAN DOLLARS				.,,			-
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Kimisawa Co.(c) ♦5★★	40	1995	-	ı,	100	SBC	0.250
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uropean inv.Bk.♦	209bn	1995	6	12	101 %	BCI	11.579

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INTERNATIONAL CAPITAL MARKETS AND COMPANIES

Saab seeks car partner in Europe

By Robert Taylor in Stockholm

SWEDEN'S troubled Saab-Scania company is anxiously seeking agreement with a leading European car maker after the collapse last week of its talks with Ford of the US on

joint co-operation. Flat, the Italian company, and Peugeot of France are believed to be holding separate discussions on a possible deal with Saab-Scania whose car division looks set to lose more year, mainly because of its worsening sales in the vital US

car market.
It has been calculated that the company is losing up to SKr14,000 on every model it

Mr Georg Karnsund, the company's embattled chief executive, said last Friday that it might take two to three years for the car division to recover, but there are growing doubts that he has very much time left to remedy its trou-

bles.
The rationalisation programme, designed to reduce Saab's soaring costs, has made some progress, with a cut of 2,000 in the 15,000 strong workforce, moves to improve productivity and the sale of some of its component plants.

Saab's suppliers in Sweden, however, have just rejected the company's demand that they should cut their prices by 10 per cent to assist the troubled

Last Friday Saab officially opened its new SKribn assem-bly plant in Malmo, which will have an annual capacity of 60,000 cars, manufactured by the latest techniques of team

production.
The new plant suggests that
Saab believes its current troubles are temporary.
But Saab-Scania has troubles in other areas and a question mark still hangs over its air-

It is true the company has succeeded in building up orders and options for its civilian Saab 340B and Saab 2000. Only last Friday Mr Karnsund announced that Salenia, the Swedish airline company, had taken orders and options on 10 new aircraft with a value of

So far there have been 30 firm orders for the Saab 2000 as well as a further 34 options. But the company is still waiting for the Swedish Gov-ernment to approve a SKr1.3bn conditional loan to meet half the development costs of the



Georg Karnsund: car recovery

Moreover, the military aircraft side of operations faces an uncertain future, mainly because the Swedish Government has yet to give its further financial support to the future of the JAS 39 or Gripen project. This has been fraught with structural problems that culminated in a crash on the zeroplane's trial run last February, A report on the JAS project

was presented to ministers on

October 2 and a government

the Government gives Saab-Scania the thumbs down then the company fears its entire aircraft operations will be in

jeopardy.

It is expected to unveil a much greater loss in 1989 than the SKr138m deficit suffered

last year.
For the moment, at least, the company can continue to rely on substantial profits from the sale of its trucks and buses, which enjoyed a 17 per cent increase in sales in the first eight months of the year. Analysts believe the Scania

division could achieve a profit of about SKr3.7bn, making it one of the most profitable heavy goods manufacturers in the world. But many observers warn of the dangers of relying so heavily on truck and bus

In the meantime, to add to the gathering storm clouds, the Swedish investment company Barkmans, owned by financier Mr Sven-Olof Johansson, increased its equity stake in Saab-Scania to 14 per cent from 12 per cent and voting rights to 12 per cent and voting rights to 16 per cent from 14 per cent, adding to the pressure on the powerful Wallenberg family, the company's biggest share-

Roche lifts sales 22% and raises dividend

By William Dullforce

HOFFMANN-LA ROCHE, the Swiss chemicals and pharma-ceuticals group, reported a 22 per cent climb in sales to SFr7.32bn (\$4.5bn) during the first nine months and reiter-ated its previous forecast of "a considerable rise" in earnings this year.

The group increased the shareholders' dividend by 21 per cent, from SFr660 to SFr800 a share, on the 1988 account, after it had declared a 33 per cent improvement for last year in consolidated net earnings to SFr641.5m. This profit performance was achieved on a 13 per cent sales

In April Hoffmann-La Roche undertook a far-reaching capi-tal restructuring, designed to open its stock to institutional investors and to make its

shares more tradeable. The 22 per cent increase in turnover in the first nine months of this year represented a 13 per cent gain in local currencies.

Exchange rate influences were less marked than in the corresponding period of

Ericsson signs US contract

By Robert Taylor

ERICSSON of Sweden has taken an important step towards its goal of penetrating the US telecommunications market with the signing of a five-year contract with Southwestern Bell for the purchase of Axe digital switches. Neither side would reveal the value of the deal.

Ericsson's switches are to be supplied for lines Southwestern Bell is installing in Arkansas, Kansas, Missouri,

Oklahoma and Texas.

The Swedish group made clear the contract contained an important qualification. Its full benefit is contingent on Southwestern winning approval from the states concerned for new regulations covering sensitive issues such as price flexibility.

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BNP buys stake in Romagnolo

By John Wyles in Rome

A FURTHER strengthening of Franco-Italian banking ties has been marked by the acquisition of a 2 per cent stake in Credito on a 2 per cent state in creation Romagnolo, Italy's second-larg-est private bank, by Banque Nationale de Paris. Mr Francesco Bignardi, the Bologna bank's president, said late last Friday that BNP had

purchased its shares on the open market with the agree-ment of the Romagnolo board.

The two banks have agreed a medium-term, collaboration. plan which will allow Romagnolo to upgrade its services to clients and will guarantee "a direct support on all of the principal European markets through the French bank's net-

Romagnolo is controlled by a group headed by Mr Carlo De Benedetti of Italy.

Texas Instruments falls 31%

By Martin Dickson in New York

TEXAS Instruments, the US electronics manufacturer, has announced a 31 per cent drop in third-quarter net income, due to the slowdown in its key semiconductor and defence electronics markets.

Net income for the quarter totalled \$65m, against \$94m, on net sales of \$1.54bn, slightly down from \$1.58bn. Earnings per share worked through at 67 cents, down from \$1.63 in the same period of last year. Mr Jerry Junkins, the chair-

man, said the growth rate in the world semiconductor market was continuing to slow, particularly for memory products, because of the weaknesses in the electronic equip-ment sectors. Its latest survey showed customers maintaining low levels of semiconductor

The company's operating profit was \$40m, or 3 per cent of net sales billed, down from \$107m, or 7 per cent in the

same period of last year and \$33m below the second quarter. This was primarily because of lower prices and higher depreclation in semiconductors. While analysts had expected

a sharp decline in earnings, the operating profit figures were worse than some had been forecasting. Mr Junkins said the company expected "near-term sluggishness in the elec-tronics market and we will take ongoing cost reduction actions as necessary to keep. operations aligned with

He also announced Texas

would be taking an unspecified

fourth-quarter charge for a reorganisation of its operations in advanced information systems. The aim was to create a group offering sophisticated software development tools for business problems, and the shake-up would also help produce large reductions in oper-

Net income for the first nine months totalled \$256m, down from \$271m, while earnings per share were \$2.70, compared with \$3.01. Net sales were \$4.66bn, up slightly from \$4.60bn, with increases in the components and digital products segments more than offsetting a decline in defence

Mr James Barlage, an analyst at Smith Barney, felt that in the longer term the company's prospects for significant growth were "quite dismal." The slowdown in military spending was hitting what had been one of the company's greatest areas of growth over the past decade.

Mr Stuart Johnson, at

Wertheim Schroder, said he was looking for earnings per share for the year of \$3.45, before the fourth-quarter charge, and the outlook there-after was "not particularly exciting"

Industriekreditbank Reports

Healthy Growth in Fiscal 1988/1989

Long-term Loans to Domestic Companies¹⁾

Considerations on German Corporate Taxation

Improvements in corporate taxation in Germany are both warranted and possible. Various suggestions have been made. The first part of the IKB annual report is devoted to a discussion of aspects of taxation which we feel are of particular interest to our mediumsized commercial customers. Our analysis focuses on the possible abolition of the trade tax (Gewerbesteuer) - which in our view would be an important first step towards a modernization of the German tax system. Upon request, we would be happy to provide a copy of this report.

Business Development Favorable

Total dividends paid to IKB shareholders in fiscal 1988/89 rose to DM 43.2 million, a 29% increase over the previous year's volume. In addition to the dividend of DM 8.00 per DM 50.00 share, a DM 1.00 bonus was paid in commemoration of IKB's 40th Anniversary. The capital ratio amounted to 4.0%, with capital funds at DM 886.5 million.

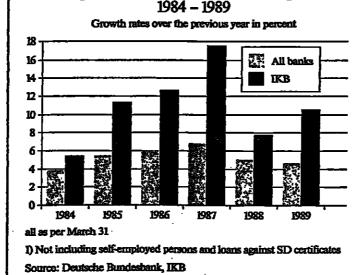
Loan Volume Expanded

During the 1988/89 fiscal year, the balance sheet total rose to DM 22.4 billion - an 11.5% increase over the previous year. Long-term claims on customers grew by 13.1% to DM 16.8 billion. Net interest and commission income rose DM 5 million to DM 281 million. The increase in administrative costs was held in check by a modest rise in personnel expenditures and a decrease in operating costs. As a consequence, the partial operating profit rose to DM 166 million.

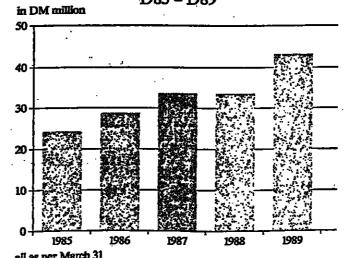
A Range of Specialized Services

Complementing its core business, IKB also offers a wide range of specialized services. In Luxembourg, for example, both the IKB subsidiary, IKB International, as well as the IKB branch office operated successfully in international lending, money market trading and in the securities business. A wholly-owned Hamburg-based subsidiary, IKB Leasing GmbH, is active in equipment leasing. IKB Immobilien Leasing GmbH, a joint venture of IKB and BHF-BANK, focuses on real estate leasing. IKB's international business concentrates primarily on long-term financing of machinery and equipment exports. The Corporate Finance Division advises companies on underwriting, mergers and acquisitions, and participations via IKB's subsidiary, IKB Beteiligungsgesellschaft mbH. IKB Consult GmbH offers comprehensive corporate consulting services.

IKB's principal goal is to provide corporate customers with a wide range of high-quality specialized services, making IKB the bank of choice for advisory services and long-term



Total Dividend Payment 1985 - 1989



Summary of Financial Figures (non-consolidated)

	March 31, 1989 in DN	March 31, 1988 4 million	Change %
Balance sheet total	22,396	20,087	+ 11.5
comparative consolidated figures	22,592	20,214	+ 11.8
Claims on customers	17,206	15,328	+ 12.3
of which long-lerm	16,788	14,849	+ 13.1
Own bonds issued	7,140	7,406	- 3.6
Long-term liabilities to banks	7,046	4,937	+42.7
Long-term liabilities to other creditors	5,037	4,617	+ 9.1
Capital funds	886.5	757.5	+ 17.0
Net interest income	278.8	273.8	+ 1.8
Net income	58.2	45.6	+27.6

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INTERNATIONAL CAPITAL MARKETS

Weak distress signals amid the fury Lawson has his cake, and eats it

People seemed chastened.

But they were not all that

chastened. In the course of last

week the Dow recovered 119.88

points. An earthquake in San

Francisco unleashed a raging

bull market in insurance and

On Friday morning a rail-road called Chicago & North Western raised \$475m in 12-

year bonds at an interest rate

of 14.75 per cent, resettable

after one year at a rate not exceeding 15.25 per cent. In the course of the week Merck and

Coca-Cola, makers of pharma-ceuticals and soft drinks,

Roaring arbs, spendthrift stewardesses, earthquake ral-lies, junk bonds, glamour stocks: surely the 1980s are

But amid the noise and fury,

the economy - where people work and buy and sell things

other than financial instru-

ments — is sending out faint signals of distress. This combi-

nation of rampant speculation

and a weakening economy is just about as bad as it could

touched all-time highs.

going out with a bang.

re-insurance stocks.

credit across frontiers and ages, the attempt this autumn by a group of men to buy United Airlines with \$7.2bn in borrowed money has the look of a high-water mark.

Ever since the managers and pilots of United Airlines said they would try to buy the airline six weeks ago, speculative credit has been ever-harder to find. First the junk bond market dried up, then the market for syndicated bank loans and finally, it seems, the patience of British Airways.

Over the weekend the bidders plugged away at it. Airline Acquisition, which consists of senior managers at the airline and the pilots' union, said it was talking to the airline's flight attendants about pitching their wages into the buy-out. They hope to have a proposal to show to the board of UAL, United's parent com-

on Wall Street, where UAL stock is trading down 40 per cent from its high, the takeover speculators are bloodied but hanging in. Rather than cut their losses, the arbitra-geurs are saying: if United was worth buying at \$7bn, it's a steal at \$4.5bn. Trust us.

More prudent investors may stop and ponder. They may

mber 1983 = 100

US MONEY MARKET

US BOND PRICES AND YIELDS (%)

NRI TOKYO BOND INDEX

149.05

yteld (%)

5.51

IN THE turbid ebb and flow of consider that when airline stewards and stewardesses are asked to finance leveraged buy-outs, speculative credit has reached its outer limit.

At this high frontier, assets that have increasingly depended for their value on credit - such as stocks, some works of art and all baseball cards - may wobble or even stall. Stocks have no support but the cash flows and equity of the companies they embody.

income tax payments, as measured by Salomon Brothers, were \$1bn less in the three months to September than in the June quarter says some thing about the strength of cash flows. Everybody knows what has happened to US stock

The fact that corporate

market equity.

It was thoughts of this sort that caused the stock market to collapse 10 days ago. The Dow Jones Industrial Average fell 190.58 points in little more than an hour. Hardened bulls were openly saying that the days of easy money for difficult

In far away Australia, Mr Christopher Skase, who had rupto

Yield

PERFORMANCE UNDEX

7.75 7.94 7.82

12 wks 290

26 wits

148.10

stoph d he studio ever	er Šk would for \$1 1 \$ 5m	Australiase, who buy the L5bn, fato keep out of	o had MGM/ iled to one of	As Mr Robert Brusca, chief economist at Nikko Securities, put it last week: "In 1987 the stock market crashed but it landed on an economy that was taking off. What happened this time round was much less
RA	TES ((%)		severe but it comes at a time when the economy is weaken-
week 190	4 wis	12-mosth High	12-mosth	ing. It is a very inhospitable environment."
1.62 7.16	9.06 7.76	9.92 9.03	8.00 7.15	The latest disinflationary signal came from the Labour

disinflationary from the Labour Department on Thursday. The department said that consumer prices rose just 0.2 per cent in September with prices in some sectors of the economy, such as transportation and energy, actually falling.

Housing costs rose very mar-ginally. According to Mr Allen Sinai, an economist at the Bos-

ton-based Economic Advisers, disinflation over the summer was very pronounced" with consumer price rises falling to

an annual rate of 1.6 per cent in the four months since June. Excluding food and energy prices, which tend to move with the seasons and are volatile, consumer price inflation ran at 3.1 per cent during the

The stock market rallied at the consumer price report, on the grounds that it carried the prospect of lower interest rates. Long-term bonds also performed well. At the short end, rates have been backing up all week as the market believes the Fed no longer has to ease simply to return confidence to the stock market.

But even here the bulls are in command. The general view is that, with inflation subdued, the Fed can afford to ease further at any signs of weakness in exports or factory output. For the stock market the bullish case is sounding evermore implausible. It requires an almost superhuman skill from Mr Alan Greenspan, the Fed's chairman, in reading the direction of the economy and

steering it to safety. it requires a co-ordination of policies between nations that sometimes would prefer to bicker. Above all, it requires a controlled blow-out every now and then to prevent pressure building up throughout the system. And all this in the eighth year of an economic

For the Treasury market, the bullish case is scarcely stronger. It can be argued that the era of high yield, the roaring 1980s of junk bonds and leveraged buy-outs is drawing to a

As Mr Jim Grant; the author of this view, puts it, investors will one day grab at any yield, even no yield at all, if it means their money is safe. In those circumstances, what price will investors pay for the leveraged faith and credit of the US Treasury?

James Buchan

Swiss launch two funds

SWISS BANKS have launched two Luxembourg-based international investment funds, both of which are to open sub-scriptions today, writes John Wicks in Zurich.

Crédit Suisse's new fund will shares, offering certificates at an initial unit price of DM250 Union Bank of Switzerland's UBS Bond Invest Ecu, to be managed by Intrag International Bond Invest of Luxembourg, will have UBS (Luxembourg) as custodian bank. Certificates will have an initial unit price of Ecul00.

invest in leading European

All the Bonds having been sold, this announcement appears as a matter of record only



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Telecom Central Limited Telecom Mobile Radio Limited Telecom Repair Services Limited Telecom Wellington Limited

Westpac Banking Corporation

Banque Bruxelles Lambert S.A. Hambros Bank Limited

Algemene Bank Nederland N.V.

Bank Mees & Hope NV Banque et Caisse d'Epargne de l'Etat, Luxembourg Banque Internationale à Luxembourg S.A.

Bayerische Landesbank Girozentrale

Crédit Commercial de France Hessische Landesbank-Girozentrale-

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Nederlandsche Middenstandsbank nv

September, 1989.

THE SPEECH by Mr Nigel Lawson, the Chancellor, at the Mansion House last Thursday added little to the market's knowledge of the economy; it already knew that getting inflation down and the current account heading towards balance would take a long time.

His speech underlined the essentially pragmatic nature of the man in charge of Britain's economic policy. Mo and the exchange rate remain the key indicators of monetary conditions - the former because it gives a coincident reading of money gross domestic product and the latter because of its importance in the control of inflation. But on closer inspec-tion his speech did little to rec-oncile contradictions in the current operation of monetary

policy. In what must pass as one of the better examples of having one's cake and eating it, Mr Lawson told the City's great and good that he would not return to overfunding but then told them how he would sanction a little bit of it.

It is hard to square the Gov-ernment's funding policy with its attitude to broad money growth. Mr Lawson went to great lengths to demolish the arguments in favour of targeting broad money; it was unreliable, gave misleading signals and, if anything, the quality of broad money as an indicator had deteriorated with time.

Yet the Government's funding policy - the choices it makes in dealing with the con-

AUSTRIA 81- 90.
EARK OF TOKYO 84- 96.
EARK OF TOKYO 101- 99
EARK OF TOKYO 11- 90.
EARCLAYS JERSEY 101- 91
EARCLAYS JERSEY 101- 91
EARCLAYS JERSEY 101- 91
ERICLAYS JERSEY 101- 91

BR.COL INVOICE 114, 93... BRITISH TELECOM FIN 91, 9 CAMPBELL SOUP 104, 93... CANADA 11 1, 90... CANADAM PACIFIC 71, 96... CANADAM PACIFIC 164, 93.

APAN 10% 92.

ROP 71, 93...

sequences of fiscal surplus is framed in terms of broad money neutrality. If broad money is unreliable and misleading, why be so concerned about the effects of over/under-

The answer here is that Mr Lawson and the Bank of England are not prepared to consider altering their money market management techniques. This in turn has forced

The rebirth of the T-bill marstuffed T-bills down the market's throat.

Unfortunately T-bills were debts which the Government financial year.

The Chancellor himself recognised this when he said on Thursday: It has become increasingly anomalous to chase our tails in this way.

funding on M4?

them to exclude Treasury bills from the funding equation. ket was a consequence of the full-fund policy in the first place. Initially the Bank's stock of eligible bills was eroded as it sought to mop up the cash in the market generated by its gilt buy-back policy. When it ran out of bills it

does not need, so they needed to be unfunded. The scale of the potential unfund was estimated by the authorities at between £1bn to £2bn, not huge in itself but certainly not inconsequential in terms of the Bank's theoretical gilt buy-back in the second half of this

So T-bills are now outside the funding rule and a modest return to overfunding has occurred. But that is not the

UK gilts yields Restated at par (%) Oct 13,1989

Oct 20, 1989

10 years 20

only area where Mr Lawson has modified the rule with a hias towards overfunding in the current circumstances. He has also decided to be selective in the way the Bank sterilises - that is, neutralises - the effects on the money supply of foreign exchange

The Treasury stressed the flexibility of the new policy. That seems to mean sterilisation will occur only when it is

appropriate to do so. In the current circumstances this could mean that intervention will not be sterilised. If, however, the exchange rate were to appreciate and the Bank intervened to hold it down, then the intervention might indeed be sterilised. So where does the Mansion

House speech leave the market in terms of its understanding of monetary policy?

M0 is important - it gives reliable estimates of money GDP growth, although it is a poor predictor of inflationary pressures to come - as is exchange rate stability. Where these two indicators fail, judgment prevails, a clear victory for Mr Lawson and his senior advisers over those in the Treasury who think the economy has been subjected to too much judgment recently.

Perhaps it is concern over the exchange rate that has prompted changes to the funding rule. If the Government expects another run on the pound it can intervene to its heart's content, thereby tightening the money market and keeping short-term rates high. If it wants to keep the market tight for other reasons it can issue T-bills without the problem of unfunding them.

The implication for gits is clear. When foreign currency intervention and the withdrawal of T-bills from the funding definition are taken into account there is probably precious little buying in for the Bank to do.

Being more definite is difficult as the operation of policy has become more discretionary than it was before Mansion House. In all likelihood the market might regain some of it old shock absorber qualities. If the Bank stops supporting the market then the potential for a flattening in the yield curve is a distinct possibility.

Simon Holberton

. . . -17:00

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- - -

4.22

FT/AIBD INTERNATIONAL BOND SERVICE

QUEBEL PROVISION OF CONTROL OF CO ALLED-SICRAL 54, 93
AUSTRIA 44, 94
AVON CAPITAL 64, 92
BARCLAYS QS. INV 6 96
B.F.CE. 54, 96
CIMADIAN PACIFIC 64, 96
DENMARK 64, 92 IRM CREDIT CORP 54 12.

ITT 64 92.

MCDORAL DS CORP 64 92.

MCW 25AL AND 71 90.

MORWAY 51 4 90.

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SALIE MAE 64 92.

TRIV 180 7 94. 474 91 SW Yelf 9,477 9,927 9,928 9,938 9 DHCLER 75 A HOUSE. ELECTRIC WHILE & CABLE 12 15 370 70 20 12 17 21 65 50

STRAIGHT BUNDS: Yield to redemption of the mid-price. Amount issued is expressed in millions of currency units except for Yen bonds, where it is in billions. FLBATING RATE NOTES: US dollars unless indicated. Margin above sta-month offered rate for US dollars. C.com = current corpon. FLBATING RATE NOTES: US dollars unless indicated. Prem = percentage premium of the current effective price of buying shares via the bond over the most rece CONVENTIBLE BONDS: US Dollars unless indicated. Prem = percentage premium of the current effective price of buying shares via the bond over the most rece WARRANTS: Equity warrant prem == entering premium over current share price. Good warrant ex yid = exercise yield at current warrant price. Closing pri

UK COMPANY NEWS

New cash injection plan put together by Systems Reliability

Optim drops bid and restructures

SYSTEMS Reliability Holdings, the telephone systems designer and computer dealer, is leading a restructuring plan to revive Optim Group, the USM-quoted supplier of computer systems.

Optim, which has been suffering from cash flow problems and high horrowings, amounced a cash subscription and a 4-for-15 rights issue, which will together raise £4.5m. Optim is also abandon-ing the £2.37m all-share acqui-sition of Zelix, a computer ser-

vices group.

That deal, announced at the beginning of last month, was intended to provide a cash injection for Optim, but the board later realised that it would supply insufficient working capital.

The new rescue plan was put

THE following changes in

Aitken Hume: PJ Bachmann,

director, bought 367,500 ordi-

nary, increasing holding to 3.06m (6.23 per cent). Associated Farmers: Brit-N and NDS Brown increased

interest to 250,000 ordinary

(12.3 per cent). Copymore: HS Goldbold bought total of 152,850 shares

and owns 4.37m (40.3 per cent).

Dolphin Packaging: HB Evans,

managing director, purchased 2,000shares at 105p and 19,000

at 103p, bringing beneficial

holding to 6.4m (33.11 per cent). GI Robinson, director, made similar purchases and has a

together by SRH's chairman and chief executive, Mr Robert Evans. He joined the group from Hillsdown Holdings last year and will become executive

year and will necome executive chairman of Optim.

The rights will be made at 10p a share, against Friday's closing price of 24p, up 6p. A consortium and syndicate led by SRH are subscribing for new shares at the same price. new shares at the same price. In addition, Brown Shipley, which provided long-term loans for Optim when it floated on the USM in July 1988, has agreed to convert £2.6m of debt into equity at 16.25p a share. Mr Evans said he did not see any value in mounting a full takeover for Optim at this

stage.
"By taking a 5 per cent stake and management control we

SHARE STAKES

beneficial interest in 4.26m (22

Edmond Holdings: Willesley Clay lifted beneficial holding to

Frogmore Estates: Markheath Securities owns 8.8m shares

(22.1 per cent) following purchases of 470,000.

Hyman: Greiner Holding, pri-

vately-owned Austrian com-

pany, has acquired 5.06 per

Johnston Group: RF Gray sold

12,128 ordinary and left with

517,460 (4.94 per cent). LGW: CB McGuire acquired

8,500 ordinary at 80p. Holding

now 3.16m (71.07 per cent). NMC Group: CJ Barker bought 49,500 shares at prices between

cent of the capital.

7.12m shares (14.09 per cent).

can see what we have got and sort the company out before going too far down that road," he said.

After the recapitalisation, the main consortium members will hold 13.3 per cent of Optim's enlarged capital SRH will hold 5 per cent, and the balance will be held by Mr Michael Shafran, Mr Christopher Rigler and Tranwood Cap-ital, the investment subsidiary of the financial services group,

Mr Shafran is chairman of Global Group, the quoted importer and exporter of meat products, and has known Mr Evans since he was at Hills-down. He will join Optim's board as a non-executive director. Mr Rigler, an SRH director, will become an executive direc-

105p and 116.5p. Total holding 3.30m (8.7 per cent).

Oceonics Group: On behalf of clients EBC Nominees (Jersey) has disposed of 1.5m shares;

clients now own 4.76m (4.3 per

Pentos: Danae Investment

acquired 7,845 preference shares; holding now 56,525

(56.52 per cent). Sunleigh: Babcock acquired

395,000 ordinary and holds 4.6m (20.02 per cent). Suter has bought in 500,000

ordinary at 178p each. Total purchases 11.56m shares. Whitegate Leisure: Hornby

Trading purchased 1.32m shares bringing holding to

10.86m (7.83 per cent).

tor of the computer systems group.
Other holders of Optim's

enlarged equity will include Brown Shipley, with 20 per cent, and the existing direc-tors, with 4 per cent. The subscription shares not taken up by the main consortium members are being bought by insti-tutional and private clients of Henderson Crosthwaite, where Mr Shafran is a director, and of Tranwood. The Henderson clients will hold 16 per cent of Optim's enlarged equity, and Tranwood customers will hold

a further 25 per cent.

Among the new Optim institutional investors are two existing SRH shareholders -Prudential and Provident Mutual - which will own more than 5 per cent each.

Automotive Products moves ahead

Automotive Products reported continuing strong demand despite problems caused by interest rates in certain markets. Pre-tax profits for the six months to June 30 rose 5 per

cent to £12.8m, against £12.2m. Turnover for this subsidiary of BBA Group was £12.3m higher at £173.7m.

FT Share Service

The following securities were added to the Share Information Service in Saturday's edition: Greyfriars Investment Company (Section: Investment

Presidio Oil Company 'A' shares (Oil & Gas).
Ransomes 8.25p (Net) Cum.
Conv. Pref. shares (Engineering). Tokai Bank (Banks).

New shape **Jantar** starts to progress

JANTAR showed progress in the first half of 1989, making a the first half of 1982, making a pre-tax profit of £54,000. That compared with a loss of £24,000 in the corresponding period and with a profit of

230,000 for the whole of 1988.
The company, a former shell mining and minerals trading undertaking, was acquired by Mr Stephen Parris and European Trust in April.

It later acquired Cargo Con-trol Equipment, a maker of load restraint equipment and that represented the first stage in the development of Januar as an industrial holding company, initially concentrating on the light engineering sec-

Mr Parris, who is chairman, said the second half of the year would see the benefit of contributions from Cargo Con-trol, Jaggard's Tiltman and TV-Safe and Transequip. The level of trading in those

companies was up to expecta-tions. Jantar continued to look for further opportunities to develop within the transport services sector.

He said it was intended to return to dividends as soon as appropriate. The last payment

English and Intl net assets rise

At October 5 1989, net asset value of English and International Trust had risen to 172.4p, from the 170.7p of six months earlier.

On gross income ahead nearly £1m to £2.81m, earnings moved up from 1.68p to 1.85p. The interim dividend is

BOWATER INCORPORATED

RECORD SALES CONTINUE IN FIRST NINE MONTHS OF 1989

	9 Months ended 30 September 89	9 Months ended 1 October 88	Change
SALES	\$1,082.3m	\$1,043.1m	+3.8%
INCOME BEFORE TAX	\$ 20 5.1m	\$221.2m	
NET INCOME	\$112.4m	\$118.8m	-5.4%
EARNINGS PER SHARE*	\$3.00	\$3.16	-5.1%

Ret income used in the calculation of examings per share has been reduced by the dividend requirement of the LIBOR preferred stock.

- Newsprint shipments up by 3.2% over same period in 1988.
- >>> Newsprint operating income down due to increased price discounting and continuing pre-startup costs for new pulp
- >>> Improved operating income from market pulp, coated paper and computer forms.

Chairman and Chief Executive A.P. Gammie reports - "Sales are continuing at record levels and demand for all our products is holding up well. Despite softness in newsprint prices, earnings in the first nine months already have made 1989 the second best year in our history."



THE AMERICAN PAPER PEOPLE WITH A SOLID BASE FOR GROWTH

Bowater Incorporated of Darien, Connecticut is a major USA producer of newsprint, coated publication paper, bleached kraft market pulp and continuous computer forms.

USING COMPUTERS IN BUSINESS AND INDUSTRY

The Financial Times proposes to publish a Survey on the above on

Friday 24th November 1989

For a full editorial synopsis and advertisement details, please contact:

Meyrick Simmonds

on 01-873 4540 or write to him at: Number One, Southwark Bridge London SE1 9HL.

FINANCIAL TIMES

RATNERS GROUPPIC

£44,000,000 nominal 4 per cent. Convertible Bonds due 2002 Adjustment of Conversion Price

NOTICE is hereby given to the holders of the £44,000,000 nominal 4 per cent. Convertible Bonds due 2002 (the "Bonds") of Ratners Group plc (the "Company"), that, pursuant to Clause 5 (B)(vii)(b) of the Trust Deed constituting the Bonds, following the grant by the Company of an additional right of conversion in respect of the 5.85 per cent. convertible cumulative non-voting redeemable preference shares of £1 each in the Company the Conversion Price of the Bonds has been adjusted, with effect from 11th October 1989, so that the Conversion Price is 479p per ordinary share of 10p nominal value ("Share").

Prior to the adjustment, the Conversion Price was 482p

OVERSEAS UNION US\$100,000,000

Subordinated Floating Rate Notes due 2011 able at the option of the ters in 1996 and 2006)

in accordance with the provisions of the Notes, notice is hereby given that the rate of interest for the six months 23rd October 1989 to 23rd April, 1990 has been fixed at 81%e%. The interest payable on the relevant interest payment date, 23rd April, 1990, will be US\$10,980.03 per US\$250,000 Note.

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GOLD FIELDS OF SOUTH AFRICA LIMITED

(Incorporated in the Republic of South Africa) (Registration No. 05/04181/06)

RESULT OF THE RIGHTS OFFER OF 13,828,045 ORDINARY SHARES

Acceptances have been received in respect of 13,747,474 ordinary shares representing 99.4% of the offer which was made to shareholders in order to raise R1,026 million, net of estimated expenses of R11.1 million.

The balance amounting to 80,571 ordinary shares has been taken up by the underwriters to the issue.

Registered and Transfer Offices 75 Fox Street P.O. Box 1167

Johannesburg Johannesburg 2001

(in the Republic of South Africa) Fergusson Bros., Hall, Stewart & Co., Inc. (Registration No. 72/08905/06) (Member of The Johannesburg Stock Exchange) (in the United Kingdom)

Johannesburg

(A member firm of The Internal

									<u>"</u>	
FINANCIAL TIMES STOCK INDICES										
	0ct 20	0ct 19	0ct 18	0ct 17	0ct	0ct 13	19 High	189 Low	Siace Con High	ipilation Low
Government Secs	84.59	84.70	84.66	84,78	. 85.27	83.79	89.29	83.75	127.4	49.18
Fixed Interest	93,74	_	93.40	93.37	93.77	94.08	99.59	93.20	105.4	50.53
Ordinary	1761.0	1772.1	1758.5	1730:7	1760.3	1815.0	2008.6	1447.8	2008.6	49.4
Gold Mines	197.3	193.2	190.6	192.5	184.9	204.7	215.2	154.7	734.7	43.5
FT-Act All Share		1100.15	1689,30	1071.59	1078.89	1124.57	1225.80	921.22	1238.57	61_92
LI-MC MI SIME	2077.01						A 144 A	1988 6	8445.4	

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UK COMPANY NEWS

Preparing for the defence of its own territory

David White takes a look at the ups and downs of USH, the one-time high flyer facing a hostile bid

A has opened up for medium-sized defence companies. While bigger groups re-position themselves to take a still bigger share of a stagnant business, others face hard choices.

Do they get out of areas where the cost of keeping up is too high? Do they try to make their niches more secure? Do they go for international links to gain entry rights to other

United Scientific Holdings
was one such British company in the throes of trying to resolve its dilemma when the shadow of the predator fell across it last month in the form of a hostile bid from Meggitt, the instruments and engi-

neering components group.

A star of the defence business in the 1970s, USH relies on military clients for 90 per cent of its sales. It employs 4,000, with a big US side, a French arm, and, unusually for a UK defence group, a manufactur-ing base in Singapore which is one of the biggest producers of military optics in south-east Asia. When Meggitt made its bid, USH was in the midst of a switch in emphasis to concentrate on growth in Europe and

The specific problem which made USH especially vulnera-ble lies at the heart of its main activity. The group has a solid armoured vehicle business, Alvis, and a smaller specialised simulation division, but elec-tro-optical equipment accounts for 60 per cent of sales. At the centre of this business is Avimo in Taunton, which has big contracts it can neither

drop nor make money on. The once high-flying group has had its ups and downs since the beginning of the 1980s, from its failure to sell its Falklands-proven Scorpion

A HEAVY oversubscription for the 10.7m shares offered in

Euro Disnevland has forced a ballot to decide allocations

which favour small sharehold-

SG Warburg Securities, lead-

manager for the non-French portion of the £600m European

issue, said 171,000 British

investors applied for the shares and that the £67m UK offer

The international offer, com-

prising 42.94m shares offered

throughtout the European

Community excluding France,

By Ray Bashford

subscribed.

SPECIAL kind of limbo in the US to having to fend off unwelcome attentions from

Thorn EML In the first half of its current financial year, USH plunged into a pre-tax loss of £5.5m, after a profit of similar propor-tions a year earlier. The figures included a £5m provision in respect of Avimo. Group sales were also 23 per cent down in the first half of its current

financial year. Mr Nicholas Prest, a former government arms export official who was promoted to deputy chief executive in May after the latest in a series of hoardroom upheavals, says Avimo is "basically the main problem." The rest of the group has performed "reason-ably" in the context of slack

defence budgets.
Avimo lost £3m last year. The provision made earlier this year was for future losses then anticipated to arise on two major contracts. By a twist of fate, USH has

been impaled on the competitive arms-buying policies erected by Sir Peter Levene, who was the group's managing director and then chairman before he left in 1985 to head the Ministry of Defence's Procurement Executive. From the 1960s he had helped build USH from a war-surplus retailer to manufacturer, expanding into the US and into the Alvis business, bought from British Lev-

Avimo had been very suc-cessful in exports to countries such as Nigeria, Egypt, Algeria and Iraq, and in the UK had a reputation as a cost-effective manufacturer, involved in mass-production items such as binoculars and rifle sights, but was not deeply involved in UK Ministry of Defence research

and development work.

By the mid-1980s export work had dried up. Instead of cutting capacity, Avimo

Euro Disneyland allocations

was 11 times subscribed.

est applications.

The ballot covers applica-tions for up to 1,500 shares

under a scheme which is

weighted in favour of those

investors who made the small-

have a 50 per cent chance of receiving 100 shares, while applications for between

have a 45 per cent chance of receiving 200 shares and those

seeking between 1,000-1,500

shares will have a 45 per chance of receiving 300

UK BUILDING & CONSTRUCTION

The Financial Times proposes to publish a Survey on the above on

20th November 1989

For a full editorial synopsis and advertisement details, please contact:

Alison Barnard

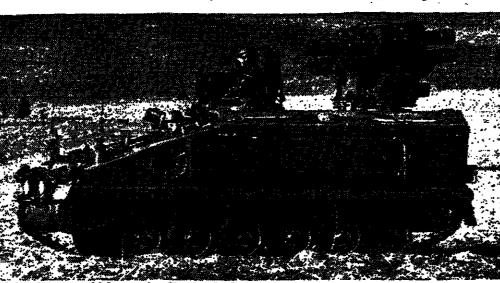
on 01-873 4148

or write to her at:

Number One, Southwark Bridge

Loudon SE1 9HL.

Those who applied for between 100-300 shares will



Alvis's Stormer vehicle carrying Starstreak, the UK's air defence missile decided to go for build-to-print pany, of gaps in the production projects in the UK, manufacturing information production projects in the UK, which were being opened up by the new MoD competition

It won two UK contracts to build equipment developed by the Pilkington group. Both were at "firm fixed prices," which in MoD-speak means no adjustment for inflation.

One was for £18m-worth of Raven sights for GKN's Warrior combat vehicle, a contract lasting eight years with deliv-eries up to 1994. Accepting a no inflation clause was, Mr Prest says, "a curious commer-cial decision." In addition, although Avimo had produced this kind of equipment before, it miscalculated the production hours needed.

The other, worth £17m, was for the Thermal Observation and Gunnery Sight (TOGS) system for the Army's tanks. This broke new ground for Avimo - much more complex to build, subject to draconian testing and validation procedures, with the added difficulty, according to the com-

Other allocation levels are: applications for 2,000-2,500 will receive 300 shares, 3,000-3,500

will receive 400 shares, 4,000 to 4,500 will receive 500 shares

and 5,000-15,000 will receive 10 per cent of the number applied for.

Those potential investors who applied for 20,000 shares or more will receive no alloca-

It is expected that the shares will be listed on the Paris, Lon-

don and Brussels stock

exchanges on November 6.

supplied to it.

"It is clear from what we now know of the technical complexity of TOGS that the delivery schedule for the contract was far too ambitious,"
Mr Prest says. The programme should by now have been roughly completed, but only a small proportion has been

Avimo also went astray on an export contract it is more discreet about, but which is known to have involved sights for Egypt. It again underesti-mated the work required.

Just before Meggitt announced its offer, USH had reached a conditional agreement to sell its Dallas-based US subsidiary Optic-Electronic Corporation (OEC), which it bought 12 years ago and which suffered losses in 1985-86. USH insists that the \$65m deal was not a "fire sale" and was not cobbled together to help it sur-

its European and Singapore electro-optics businesses instead. It is understood to Applying the theory of "get have been in discussion with a

ACCOUNTANCY

The Financial Times proposes to publish this survey ou: 28TH NOVEMBER 1989

For a full editorial synopsis and advertisement details, please

WENDY ALEXANDER

on 01-873 3524

or write to her at:

Number One

Southwark Bridge

London

SEI 9HL

European partner on a joint

Mr Prest says the group could continue to tap the US market, but at "niche level" and provided it develops the and provided it develops the right products. He recognises that the building of a proprietary product base at Avimohas been neglected in the past.

"It ploughed too much into showing spectacular growth and too little into developing the technical home of the comthe technical base of the com-

The associated French company Sopelem (USH has 49 per cent) has concentrated on renewing its product range.
The group has found some of the "quality" work it needed to replace lost Third World exports, including a laser ranfinder for France's new Leclere tank and periscopes (made by Helio, the first manufacturing company USH bought) for US tanks.

It believes the combination of "platforms" (such as vehicles) and sensors is the way defence companies should be moving. Alvis, while continuing to produce the well-tried Scorpion (it sold Venezuels \$50m worth for the state of the sensor new development on basing new development on the tracked Stormer vehicle, already chosen to carry the UK's Starstreak air-defence

But at the same time it has begun to spread its wings, carefully, outside the military sector, with Avimo Singapore entering the Japanese civilian optics market and Alvis, which once upon a time made piston

took over - is, for an opera-tion that provides 30 per cent of group sales, undesirable in aero-engines, going back into aerospace as a sub-contractor. Mr Prest says he would like to see USH doing 30 per cent of USR's intention is to expand its business in non-defence sec-tors in three years' time, and 50 per cent in five years — if, that is, it succeeds in the defence of its own territory.

Jaguar and GM may launch new car

By Kevin Done, Motor Industry Correspondent

JAGUAR and General Motors are considering the joint development and production of a range of executive cars pitched below the present Jaguar XJ6 hunry saloon range.

The new car is a key element in the current negotiations between the two companies and would lead to a significant extension of the current Jaguar range.

As part of the negotiations GM, the world's largest car maker, has already announced that it is considering taking a minority equity stake in Jag-

Sir John Egan, chairman and chief executive of Jaguar, satd last week that one of the major advantages for GM in the pro-posed deal would be the development of "joint manufactur-ing ventures".

It is understood that the two companies have not yet decided where such a new

executive car would be built nor on the volumes and mar-keting strategy, but it would draw heavily on GM technology as well as on Jaguar exper-tise in suspension, styling and

nterior design. GM has had little impact with its own top of the range European executive car sold as the Opel Senstor/Vauxhall Sen-

ator, and it is clearly seeking to use the Jaguar marque to expand in this lucrative sector. The GM plans are likely to face fierce resistance from Ford, its arch US domestic rival, however, which is now the largest single shareholder in Jaguar with a stake of at

least 10.4 per cent.
Ford has already announced that it is seeking to become a "major shareholder" in Jaguar and has persisted in increasing its stake despite a hostile response from Jaguar manage

Privately, Jaguar officials accept that the contest between GM and Ford is likely to lead to an all-out bidding match between the two companies and Inques believes that match between the two companies, and Jaguar believes that Ford could seek to undermine the planned deal with GM by launching an attractively-priced pre-emptive bid for the UK luxury car maker conditional on the removal or expirity of the Covernment's so-called

of the Government's so-called golden share.

The golden share expires at the end of 1990 and gives the Government a right of veto over any changes to the Jaguar articles of association which presently limit single share-holders to a maximum of 15

Midland & Scottish Res concentrates on Emerald

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Business Services advertising

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BUILDING MATERIALS

AND AGGREGATES

The Financial Times proposes to publish this survey

5th December 1989

IN ITS half yearly report, up to June 30, USM-quoted Midland & Scottish Resources said activity was centred on devel-opment of the Emerald cilfield in the North Sea, for which it

is prime contractor.

Production therefrom was expected to start next August. Costs, including interest on project loans, were being capi-talised and amortised over the

life of the field on a units of production basis.

In the half year the company cut its loss to £2.1m (£5.3m).

The deficit mainly resulted the administration expenses. from administrative expenses not directly associated with

Emerald development, and finance costs connected with the convertible loan stock and standby underwriting agreement which have been redeemed and cancelled respec-tively following the recent

Midland and Scottish was now structured to maximise the benefits to shareholders from the Emerald field, the directors said.

With the recent significant improvement in the offshore oil and services market, the company was set to take advantage of other major oil-field development projects.

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COMPANY NEWS IN BRIEF

going for the first option. Try-ing to reinforce OEC'S busi-ness in image intensifiers for

night-vision systems, it tried last year to take over the num-

ber two US company, Varo,

also Dallas-based. It was out-

bid to the US company IMO, to which it is now proposing to self OEC. It says consolidation is needed in the night-vision industry and that there are

particular benefits to be

derived from putting OEC and

Mr Prest also argues that the US "proxy board" system for foreign-owned defence compa-nies – which has come under

the spotlight with Ferranti's

belated discovery of a "black hole" at the US company ft

the long term.

AMERCOEUR ENERGY: In the first half of 1989 turnover came-to £133,000 (£872,000) and loss before tax £236,000 (£342,000). Directors have taken all steps to curtail further operating losses and reduce dependence on fluctuating coal prices. Loss per share was 2.49p

GREYCOAT has issued a £26m three-year deep discount note at a coupon of 1.923 per cent. are being used to finance the

acquisition of Roman House in Wood Street, EC. HILLSDOWN HOLDINGS is seeking shareholder approval to the purchase of its own

shares. It will cover the buy-in of up to 10 per cent of the capi-tal at a price not exceeding 5 per cent over the average middle market price in the prior 10

business days. RELIANT GROUP subsidiary Wisecak has agreed to sell its development site in Edenbridge, Kent, for 28.38m cash.

The site has planning permission for a supermarket (pre-let to Budgen), light industrial units, other retail space, offices and residential units.

TRILION has exchanged con-tracts for the purchase of Mer-lin, a Cardiff-based production ss, for an initial £400,000. Merlin's business centres around the corporate video market. The maximum consideration is £700,000 depending 1990 and 1991.

BOARD MEETINGS

TODAY

Oct. 31 Oct. 27 Oct. 27 Oct. 27 Oct. 28 Nov. 7 Nov. 23 Oct. 25

RED NACIONAL DE LOS FERROCARRALES ESPAÑOLES

For a full editorial synopsis and advertisement details, please contact: **ALISON BARNARD** on 01-873 4148

or write to her at:

Number One Southwark Bridge London SEI 9HL

FINANCIAL TIMES

Christiania Bank og Kreditkasse (Incorporated in the Kingdom of Nortney unth limited Embility) U.S.\$100,000,000

Floating Rate Subordinated Notes Due October 1997

Notice is hereby given that the Rate of Interest has been fixed at 8.8125% and that the interest payable on the relevant Interest Payment Date April 23, 1990 against Coupon No. 9 in respect of US\$10,000 naminal of the Notes will be US\$445.52 and in respect of US\$250,000 naminal of the Notes will be US\$11,138.02. October 23, 1989, London By: Citibank, N.A. (CSSI Dept.), Agent Bank

U.S. \$400,000,000

A National Westminster Finance B.V. (Incorporated in The Netherlands with limited liability)

Guaranteed Floating Rate Capital Notes 2005 In accordance with the provisions of the Notes, notice is hereby in accordance with the provisions of the Notes, notice is hereby given that for the six months interest Period from October 23, 1989 to April 23, 1990 the Notes will carry an Interest Rate of 8%% per annum. The interest payable on the relevant interest payment date, April 23, 1990 against Coupon No. 10 will be U.S. \$436.04.

By: The Chase Manhatten Benk, N.A. London, Agent Bank October 23, 1989



Bank of China U.S.\$200,000,000 Floating Rate Notes 1992

| 7,0007117111,171711,1753,17711,771

In accordance with the provisions of the Notes, notice is hereby given that, for the six month period 23rd October, month period 23rd October, 1989 to 23rd April, 1990, the Notes will bear interest at the rate of 8½ per cent. per annum. Coupon No. 5 will therefore be payable on 23rd April, 1990, at US\$10,901.04 per coupon from Notes of US\$250,000 nominal and US\$436.04 per coupon and US\$436.04 per coupor from Notes of US\$10,000

S.G.Warburg & Co. Ltd. Agent Bank \05\$60\$\$EZ\$£Z\$£}

official short term interest rates.

Gerrard & National

HOLDINGS PLC

INTERIM STATEMENT

There were two increases in United Kingdom clearing bank

base rates in the first six months of our year. Rates rose from 13%

to 14% on 24th May and there was a further rise of one percent

on 5th October, the last day of our half year. Despite these rises

group profits are higher than for the comparable period last

During the last week turbulence in stockmarkets round the

world has caused considerable volatility in interest rates.

However, with sterling remaining vulnerable on the foreign

exchanges, we are not expecting an immment reduction in

The Directors have decided to pay an interim dividend in respect of the half year to 5th October, 1989 of 3p per share

(1988: 3p per share) which will cost £1,144,344. The dividend

will be paid on 6th December, 1989 to members on the register at the close of business on 10th November, 1989. Transfer books will be closed for the day on 13th November, 1989. This year the

interim statement is being sent directly to shareholders.

U.S. \$250,000,000 **Security Pacific** Corporation

Floating Rate Subordinated Capital Notes due 1997 Noteholders are advised that for the Interest Period from August 21, 1989 to November 20, 1989 inclusive, the sum of U.S. \$226.79 will be payable on the Interest payment date, November 21, 1989, per U.S. \$10,000 principal amount of Notes. By: The Class Maskattas Bast, R.A. Landen, Agent Bast.

October 23, 1989 October 23, 1989

R.B. Williamson 19th October, 1988

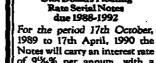


Nationwide Anglia Building Society (Incorporated in England under the Building Societies Act 1986)

Subordinated Floating Rate Notes due July 1998 For the three months 17th October, 1989 to 17th January, 1990 the Notes will carry an interest rate of 15.71875% per annum with a coupon amount of GBP 396.20 per GBP 10,000 Note, payable on 17th January, 1990. Listed on the Luxembourg Stock Exchange.

Bankers Trust Company, London

Agent Bank



Notes will carry an interest rate of 95% per annum, with a coupon amount of U.S. \$34.73 coupon amount of U.S. \$34.73 per U.S. \$1,000 Note payable on 17th April, 1990.

Correction Notice

U.S. Dollars Floating

o Central de Costa Rica

Benkers Truss Company, London Agent Be

WORLD PULP

The Financial Times proposes to publish this survey on:

AND PAPER

12 DECEMBER 1989

For a full editorial synopsis and advertisement details, please contact:

ALISON BARNARD on 01-873 4148

or write to her at:

Number One Southwark Bridge London SEI 9HL

FINANCIAL TIMES

U.S.\$200,000,000 ML TRUST VI

Collateralized Mortgage Obligations Floater Class A Bonds

In accordance with the provisions of the Bonds notice is hereby given that the Rate of Interest has been fixed at 9.1875% for the twelfth Floater Interest Period of 20th October, 1989 through 19th January, 1990. Interest accrued for this Floater Interest Period is expected to amount to U.S.\$10.59 per U.S.\$1.000 Bond.

PRINCIPAL PAYING AGENT

Texas Commerce Bank National Association at the office of its agent at Texas Commerce

Trust Company of New York 80 Broad Street New York 10004

PAYING AND TRANSFER AGENT Citicorp Investment Bank

(Luxembourg) S.A. 16 Avenue Marie-Thérèse L-2012 Luxembourg Merrill Lynch International Bank Limited

Agent Bank

orated with Hentred Hubility the Republic of Ruly)

sting Rate Depositary Receipts due 1992

Company Limited evidencing entitlement to payment of principal and interest on deposits with Banca Nazionale lell'Agricoltura S.p.A.

Notice is hereby given that he Rate of Interest has been fixed at 8.625% for the inexest period 23rd October, 1989 to 23rd April, 1990. The Interest amount payable on 23rd April, 1990 will be

Guaranteed Floating Rate Notes due 2006 The Kingdom of Spain Holders of Notes of the above lesus are hereby notified that for the interest period from 24th October, 1989 to 24th January, 1990 the following will apply:

ECU 100.000.000

1. Rate of Interest: 10'4% per annum 2 interest Amount payable on interest Payment Oeto: ECU 268,33 per ECU 10,000 nominal or ECU 2,663,33 per ECU 100,000 nominal 3.interest Payment Date: 24th January, 1990

Bank of America International Limited

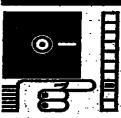
Banca Nazionale dell'Agricoltura S.p.A.

US\$ 150,000,000

sued by Bankers Trustee

US\$4,360.42 in respect of

FINANCIAL TIMES



Technology is so transforming the industry that it is hard to say where digitally generated

image manipulation ends and printing begins. Raymond Snoddy says in the run-up to Europe's single market, concentration and internationalisation are the trends

In the grip of rapid change

all its manifestations — Britain's fifth largest manufacturing industry - larger even in output and employment than the car industry, is in a state of turmoil.

A traditional industry is in the grip of rapid technological change and dramatic restructuring. Some think the changes to come in the next decade will be more fundamental than in the 500 years since Caxton.

nerald

14 to 12

ICES

Developments including still video and the sort of digital image manipulation made possible by companies such as Quantel start to call into ques-tion the traditional boundaries

Computerisation has already cut out whole processes in the preparation of words or images for printing. The electronic integration of words and graphics, already possible, should become a practical commonplace within three to five

Newspapers have over the past three years seen a much delayed technological revolution, with journalists in effect setting their own copy by direct inputting of stories into electronic newsroom systems.

The latest industry estimates suggest that within three to employing fewer than 10 peo-five years the words and pages ple and the industry is still a

plate in a stream of digital impulses, thereby cutting out

Mr Brian Blunden, chief executive of PIRA, the research association for the paper and board, printing and packaging industries, believes that technological change is having the effect of "moving all the action towards the originator" of

If anything, he believes the rate of change is speeding up. Even the part of the printing business that seems most immune to change, bringing together ink, paper and image on a printing press, is develop-ing rapidly with the growing sophistication of computer control systems, increasing use of robotics in paper handling and the introduction of short-grain web offset presses which make significant savings on paper. At the same time as technol-

st at the top end of the market a deep restructuring as printing starts to follow publishing in responding to global-Although the typical printer

a small businessman

yet another stage in the production process.

words and pictures.

fragmented one, in the first division new larger groupings are being created through hos-tile takeover battles for high technology companies in search of larger patrons to take on the costly business of innovation in a time of change. ogy has been changing the face of printing, there has been at The latest battle has been

over the future of Norton Opax, the specialist printing and packaging group and itself a predator in the past. Norton last month accepted a £382m offer from Bowater Industries, the packaging and industrial products company, after drop-ping its own 2679m bid for De La Rue, the banknote printer.

In turn, De La Rus sold Cros-field Electronics which pro-duces everything from scanners used to input images into computers to electronic page composition equipment, for £235m to a 50-50 joint venture between Du Pont, the US

chemicals group, and Fuji Photo Film of Japan. As Mr John Holloran, chief executive of BPCC, the largest UK commercial printer, says:
"It's a good time to be private."
Yet neither private nor public can escape the effects of technical change and the fact that almost any computer company that wants to can enter

sonal computer and a page

make-up software package.

At Atex, the largest supplier of electronic newsroom systems, Mr Alec Hollingworth, vice-president of European operations, concedes the onward march of the PCs but argues the real challenge will be in the management of com-plex production systems such as large daily newspapers to keep track of every item of copy and remove bottlenecks.

An increased move towards editionalising, both of editorial and advertising, will mean the need for parallel systems, Mr

Hollingworth believes. Such an Atex system with high power Vax computers is being used at the Boston Globe. "One page with full colour every minute - that's the objective. Though we haven't got there yet, that's the direction it's going," he

At Crosfield, Mr Jim Salmon, managing director, admits: There's a fair degree of turmoil in the industry at the moment." But, when it settles, he sees the future role of companies such as Crosfield more as that of systems integrators and providers of software systems on top of its tradi-

CONTENTS

tional ability to supply individual pieces of equipment.

Leaders of the industry had

a glimpse of the depth of future technical change earlier this year when they visited Japan as members of the International Electronic Publishing Research Centre. Many technological innovations seen on the centre's first visit six years ago were now available as commer-cial products.

At Canon, the camera manu-facturer which earns nearly 80 per cent of revenue from business products such as copiers, the group was shown a colour bubble ink-jet printer to be launched next year. It uses a thermal process to expand and expel ink particles rapidly onto the paper through four heads each with 128 tiny nozzles through apertures as small as three microns in size.
At Dai Nippon Printing, a

general printing company whose annual sales exceed \$7bn, the group was shown how high definition television pictures are being used as the basis of an "electronic book." described as a warmer and inherently more attractive medium than a printed book at least to children.

The electronic book is probably 10 years away as a commercial product but already digital images from HDTV are used to erate conventional images in books – an extreme exam-ple of the digitalisation of information is leading towards a real convergence of previ-ously separate media such as

television and printing.

Less futuristic is the development of still video cameras for both consumer and professional use. Sony has developed a system that contains up to 25 frames on a single two-inch floppy disk and delivers still

images quickly without chemi-cal processing.

Mr Blunden, also chief executive of the International Electronic Publishing Research Centre, says such systems could be to editorial direct input of picture images what the personal computer has been to direct entry of text."

After his study trip Mr Blunden issued a warning about the extent of the country's commitment to information technology expected to account for

one third of Japan's capital expenditure by the year 2000. The PIRA chief executive fears that few in the British industry really understand the impact of technology in creating multi-media industries in the way that he believes Mr Maxwell and Mr Rupert Murdoch, chief executive of News Corporation, do. "As we move towards 1992 and a single Euro-pean market I think the UK needs another half dozen Max-wells and Murdochs," he says.

That may be a tall order but Mr Colin Stanley, director general of the British Printing Industries Federation, argues that the industry is a largely unsung success story.

Printing had revenues of

more than £7bn last year, employed more than 200,000 employed more than 20,000 people and was the eighth largest manufacturing industry. On the broader definition used by PIRA, which includes publishing, the sector is the fifth largest, with revenues of £13bn in 1987, the last year for which official statistics are available. More significantly, according to Mr Stanley, last year British

printing had a trade surplus of 288m after a £200m surplus in 1987, productivity increased by 35 per cent between 1985 and 1988 and the UK also had Europe's highest level of presses less than two years old. An example of the scale of modernisation in the British industry came earlier last month with the opening by HunterPrint, which claims to be Britain's largest jobbing printer, of a £31m web offset plant at Corby.

Apart from technological uncertainty, the main difficulties the industry now faces are high interest rates and a feared slowing down in the growth

In the UK Printing Industry Statistics 1989*, published ear-lier this month, Mr Tim Rothwell, of Barclays de Zoete Wedd, says that, despite such difficulties, industry opportunities still look encouraging.

There are still prospects, Mr Rothwell believes, for print to increase its share of per capita advertising expenditure in both the UK and the rest of Europe; corporate activity in the sector is likely to remain high and the communications market in general will show above-average growth.

But he warns that the overall health of the sector will depend on the larger public and private companies together with possible alliances of smaller companies.

"These companies will need

to become more active and aggressive in a European context in order to survive the challenges of the next decade,'

Mr Rothwell says.
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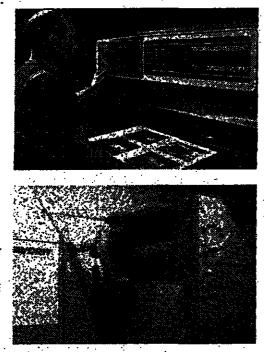


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TECHNOLOGY

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Life HAS changed - very noticeably - for Mr John Hol-loran, chief executive of BPCC, Britain's largest commercial

When he was chief executive of Mr Robert Maxwell's BPCC the carpet was thick and the support systems just what you would expect in the headquarters of a major international publishing company. In an emergency, he could always hitch a ride on the Maxwell helicopter or the Maxwell

executive jet.
The carpet is much thinner these days and John Holloran can be found up three flights of stairs - there's no lift - in modest premises on London's

The difference is the £265m management buyout that Mr Holloran successfully concluded with Mr Maxwell

"In a buyout, you're sharing the dream that you're building a business to go public and it doesn't matter if the office is not very smart. I am prepared to go without any corporate comforts to drive this business on and I expect my management to do exactly the same, Mr Holloran says.

The man who tried and failed to buy his old employers McCorquodale before it went to Norton Opax is now firmly in the driving seat and believes it is a great time to be a private

printing company.
Outside his door, the takeover battles rage as a process of polarisation seen already in the publishing industry starts to drive printing as well: the major printers get bigger and the medium-sized either get squeezed or taken over.

"We generate £50m a year cash, of which £25m is depreciation. Our past investment is throwing off enough cash almost to service our debt. So

"I would like to go public and build a truly global business"

as long as we don't put the company into some horrendous nosedive through bad management, which we won't, or alter-natively the industry gets so bad, which I don't believe it will, then we are in a very strong position," Mr Holloran

says.
The commitment to venture capital companies Electra and Candover is that within three to five years Mr Holloran will sell the company or take it public so that the investors can get their money out.



John Holloran: thin carpet and a tight rein on costs

Raymond Snoddy talks to John Holloran, BPCC chief executive

Top private on parade

loran.

Releveraging BPCC, taking the original investors out and selling the business back again to its management is one clear

"At the moment I would like to go public and build a truly global printing business," says Mr Holloran in an echo of the publishing ambitions of his old boss, Mr Maxwell, who still holds a 19.9 per cent stake in RPCC, a stake that is convertible into 24.7 per cent on flotation.

The new private BPCC has been kept largely intact. One small credit card company has been sold and a general binding company at Harlow in Essex has been closed. The total number of employees, at 6,500, is 300-400 down on pre-buyout days but the reduction includes the removal of a layer of management, some of whom were offered and accepted pay cuts to stay on

"Robert Maxwell restructured, he worked hard at it and he left a good business. What we've got to do really is to sharpen it up everywhere and try to put the craft back into

the business," says Mr Hol-

This has included tightening

up on all costs while at the same time giving more than 70 top managers the chance of a slice of the business through five-year share option schemes. To say that John Holloran keeps a tight rein on costs amounts almost to an understatement. Every Tuesday there is a detailed examination of the state of the 45 separate units in the company. Any units absorbing as opposed to generating cash have to come to Mr Holloran as banker once

a week. "Of our 45 factories nearly 40 are cash positive," says Mr Holloran who is also, in the vein of Robert Maxwell, chief buyer for the company, personally clearing every purchase over £10,000.

"No company of this size is getting the kind of attention BPCC is," says Mr Holloran, who normally works 12-hour days, entertains customers two or three times a week but adds that at this level of business he is in effect looking after the shop all the time

The share option scheme is not designed to create what Mr Holloran described as "a private thiefdom" with 78 printing millionaires after flotation but to provide enough incentive to make that extra effort

worthwhile." The new BPCC, which prints around 600 titles including Radio Times and Readers Digest, says it has lost no major contracts since going private and has won the recently launched Me magazine and a significant slice of the cheque printing business of Barclays Bank,

The company has spent £30m this year and last on new equipment including new "short grain" presses from M A N Roland, presses that not only go faster than previous presses but save up to 15 per cent on

paper.
The new generation of web offset presses coming unto the market is just one facet of new

technology now changing the printing industry. Within the three-to-five year timescale in which BPCC will either float or be sold, Mr Holloran expects to be electronically laying out pages and call-ing up graphics and pictures in digital form.

But the greatest change of all, he believes, is that printing is now seen by British management as a respectable business to come in to after the dark days of the 1970s when the

Deals for six-day working "will have to be negotiated"

industry nearly died.

If it is to remain competitive internationally, Mr Holloran argues, then the British printing industry will have to negotiate deals allowing six-day working.

"In 1992 we can go and take a slice of the European market in a hig way or we can stay where we are, roll over and have them come over again," says Mr Holloran who foresees more marriages between Brit-ish and continental European printing groups.

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DESK-TOP PUBLISHING

Growth forecast scaled down

HAS desk-top publishing fived up to expectations? Just a few years ago it was billed as both a solution for most companies' printing needs and as a lucra-tive market sector for those companies selling the hardware and software.

Now both users of desk-top publishing (DTP) systems and analysts, with a keen eye on company profits, are taking a more sceptical view.

From the commercial view-point, analysis admit that the market is maturing. "It's by no means a dead market, there is still growth to be had," says Mr Bob Faulkner of Alex Brown, the New York invest-ment bank. "But the easy sales have now been made."

US market research organi-sation Dataquest has also mod-ified its predictions for the North American market. Last year it forecast that personal computer-based DTP systems would grow by 42 per cent every year until 1983. It has now reduced that to just 28 per cent a year for the next five years.

So what has caused the cold feet? From the consumers' point of view, it is now clear that DTP is not a panacea for all fils. In particular, many would be converts have discovered that DTP systems can be quite difficult to use. "You can't just sit down and bang out these beautiful docu-nemis," says Mr Faulkner. "It

needs time and training."
As a result, the biggest growth area in the UK has been in professional applications of newspaper and magazine publishing and graphic design. In the US newsletters top the list, followed by nemos and internal documos and internal documents, technical documentation, internal company reports and sales literature, according to a recent Dataquest survey. The combination of cus-

COMPUTERISED METHODS of

print origination are gradually

combining the activities of typesetting and image repro-duction into a single function

known as pre-press, but this

remains distinct from printing,

other than proofing in single copies or very short runs. Any

consideration of the effect of

new technology on the printing

industry must therefore deal

separately with pre-press and

Maker system four years ago; is misleading. The Aldus innovation, quickly followed by rivals such as Quark and Ven-

tura, was to use the personal or micro-computer for page make-up on the computer screen, with immediate output

of a reproducible original on a

table-top laser printing device. This is a method of pre-press

origination and as far from "publishing" as a microwave oven is from being a desktop

The combination of text and graphics on screen, with whole page output by means of raster image processing, le the con-sistent treatment of all page elements as digital dot images,

applies equally to professional typesetting methods. The main-difference is that professional front end systems are faster

and more accurate because they use codes rather than the built-in menus of the DTP

screen. The subsequent use of a typesetting machine, or "ima-ge-setter" as it is now known,

provides far superior quality owing to the finer raster image resolution of more than 2,000 dots an inch, compared with

to mention vastly superior typeface resources.

The whole movement of text

and graphic make-up on screen, whether DTP or other-wise, has had the profound

effect on the typesetting busi-ness of separating the front-end or input activity from the

image setting or output. This may be seen as a first step in the distribution of pre-press activities from the trade to the

customer, leaving the professional to put the finishing touches to the original, which he will receive either by tele-

phone modem or on some form

of data carrier such as a floppy

Magazine publishers

are using DTP-based

front end systems

disc, and output the content.

onto film or bromide paper for

widespread establishment of typesetting bureaux, whose main activity is the processing

of customers' discs, rather

than keyboarding Linotype's

latest published list of such

bureaux using Linotronic

image-setters has more than

of speed and precision, DTP has suffered from lack of training of its operators, a fault that lies with the users rather than

the suppliers. The best use of

DTP is probably that made by

200 addresses in the UK. Apart from inherent defects

So far, this has led to the

olatemakine

restaurant

printing activities.

tomer resistance and a need to increase sales means that DTP companies are now focusing their products more precisely. When it was first launched about five years ago, DTP wavered half-way between pro-fessional publishing and word processing - a way for compa-nies to prepare their own documents on a personal com-puter (PC) and print them out

on a laser printer. Now DTP is moving both downmarket, in terms of price and ease of use, and upmarket in terms of its capabilities.

For the lower end of the market most of the major companies are working on software which is easier to use. "A typical person who wants to add basic graphics to a busi-ness document doesn't need all the facilities of a graphic designer," says Mr Faulkner.

At the upper end of the mar-ket a growing number of magazine publishers are using in house printing systems rather than sending their jour-nals to outside printers. Com-panies such as Crosfield Ricctronics, a venture between Du Pont and Fuji, Scitex of Israel and Hell of West Germany are all selling systems which com-bine the ability to manipulate sophisticated graphics on an Apple Macintosh PC with professional printing machines and high definition colour scanners for inserting colour

photographs.
Although Dataquest has slashed its predictions for market growth in PC-based DTP, it has upgraded its fore-cast for the high-powered systems, and now expects sales of those will grow by 18 per

cent a year.
Further confusion in the PC-based DTP market has been fuelled by the unexpected decision of Apple Computer to swap allegiances on DTP standards. Apple has forged an

leading US software developer, to devise a new format for the way text is displayed and printed. To do that, Apple has dis-

solved its former alliance with Adobe Systems of California, which developed display software called Postscript - a standard already endorsed by Digital Equipment, NEC, Wang and Fujitsu. Mr Jerry Byma, managing director of Adobe Systems Europe, in Amsterdam, argues that Postscript is already a de facto standard, with over 600,000 Postscript devices in use and

To increase sales despite customer resistance, companies now focus products

more precisely

60 different products en sale incorporating the software. In response to Apple's move, Adobe has decided to publish Adobe has decaded to punish the coding it uses for its type-faces — until now available only to companies paying licence fees. Adobe is hoping

this will continue to increase the spread of Postscript.

For computer users, the new alliance between Apple and Microsoft could result in Apple and TOM countries. and IBM compatible PCs being able to display and print out identical documents particularly important for companies which use both types of computer on the livest area. computer on one local area network. But it looks like at least a year before the alliance will produce any commercial

Although commercial manocavrings may undermine DTP, technological develop-ments - particularly in print-ers - look set to be its sav-

alliance with Microsoft, the lour. Until recently, two of the basic drawbacks of PC-based DTP systems were that they could only print in black and white, or in crude spot colour, and the range of half-tones, or greys, that they could produce

of the state of the state of

were limited. The speed with which colour printing will become widespread will depend on develop-

ments in colour printers -both laser and ink-jet models. Ink-jet printers which, as their name suggests, shoot jets of four different coloured inks at the paper, are cheaper than laser printers but slower. The latest versions, for example, can mist a page in about five

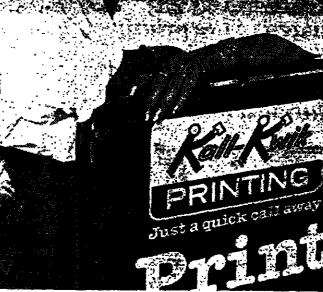
Most ink-jet printers now use ordinary paper - not the coated top still used by facsimile machines. And further developments are afoot to develop printers with up to 2,400 nozzles - the current breed typically have 50. That would mean the print bar could span an A4 page, which would reduce the number of moving parts and so increase reliability:

Because of these rapid developments, the Technology Partnership, the UK technical consuitancy, believes that sales of ink jet printers will grow rap-idly. By 1991, it predicts, the US market alone will be worth

Another emerging business application of DTP does away with the printer altogether. Instead, the text and graphics produced on the computer screen are translated into material for slides or videotape. In the near future they could also be fed onto compact discs or videodiscs instead of onto paper.

Della Bradshaw





Typesetting combines with image reproduction

Technology has its uses

and have the resources to ensure that their franchisees receive the appropriate training. Kall-Kwik, using Aldus PageMaker in about 120 of its UK shops, promotes the method as "electronic design," not DTP.

Some other instant print shops have branched out into mainstream printing, while retaining the speed of service that justifies the "instant" tag. London-based Imediaprint, founded 20 years ago, now has six High Street shops using plain-paper copiers, backed up by five small offset production units and a full-scale sheet and web-offset printing factory in the City. The firm has its own typesetting subsidiary and has made a speciality of lengthy company publications, such as manuals, in relatively short runs, together with a 24-hour service for printed seminar

This kind of work, as well as business stationery, is in many cases handled by large in-plant printing departments such as those of Shell, National West-minster Bank or British Tele-

which have widely adopted the new technology to replace among the first to increase their previous typesetting and manual cut and paste methods, ment information systems. which are only slowly gaining ground within the mainstream printing industry.

At the front end of many

implant printing operations, corporate publishing systems are used. These differ from DTP by being multi-user, multi-tasking operations, with networking and powerful storag sometimes associated with demand printing" on digitally controlled rerographic machines. With major users in the aerospace and computer software industries, corporate publishing systems are already associated with "publishing" on the user's computer screen

as well as in print. Magazine publishers are now increasingly using DTP-based front end systems for monochrome page composition, as are book publishers, at least in the United States, where Viking Penguin has recently initiated a two-year plan to bring all pre-press origination in-house with a system supplied by Bestinfo.

Colour origination and printing The US is also taking

the lead in the introduction of "desktop repro" or in-house 'colour origination. This is still in its infancy and requires more accuracy than most DTP systems currently provide. since the four-colour process requires precise control of half-tone screen angles and multiplies any error by four. So far, the only important distribution of colour pre-press activities outside the repro trade has been in the use of digital "design production" systems in graphic studies, to produce a magnetic tape which

guish design production systems from mere design systems, which do not connectwith any form of production other than a crude thermal col-our print or a slide for use in business presentations.

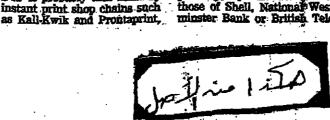
Colour printing is now almost universal except for pure information printing and books of text only. The attence into colour has been made possible both by pre-press innovations and by the development of two-colour and four-colour printing presses of good quality right down to the As sheet size (two magazine pages to view) and even siz-gle-page A4. Suitable for inplant work, as well as the smallest mainstream printing company, such machines have made colour easy, and it is perhaps significant that a high proportion of them are of Japase manufacture.

While the instant printer makes full use of plain-paper copiers for monochrome work, so long as quality require-ments are modest and the run barely exceeds 100 to 200, col-our convins has simply sobarely exceeds 100 to 200, tol-our copying has simply not begun to exist as a printing method. The latest colour copi-ers are in fact, promoted as means of photographic enlarge-ment with digital enhancement and graphic manipulation facil-ities, mainly for displays. New technology has bene-fited the small printer and the instant print chain, enabling them to provide better and fas-

instant print chain, enabling them to provide better and faster services. Implant printing retains the advantages of class control, instant corrections and confidentiality but a firm must be large indeed to incorporate full-scale corporate pilk-lighing denariments run on aris lishing departments run on an economic basis.

Far from threatening the industry, it has increased awareness

Much of the print produced by in-house DTP and corporate publishing systems would not have been produced as print with typographic design and graphic illustrations, before the new techniques became available Far from threatening the printing industry, the information society has increased typographic awarenereased typographic aware ness and the expectation of color our graphics, enabling the smaller printing company, suitably equipped with modern presses, to flourish more the



Rapid change colours future

newspaper and magazine publi-cation has proved, like all the best revolutions, to be an ongo-ing rather than a final process. The mighty upheaval in the newspaper industry prompted by the move of the News International titles to Wapping in opened the way for an acceleration in daily publishing which now looks likely to continue into the next century without much pause for consolidation.

The first step beyond the relatively straightforward application of new technology to old newspapers has been the move printing by the UK daily papers; now, pagination, or the direct on screen preparation of

newspaper pages has become the next hot priority. These high-pressured changes in the UK printing industry have had the predictable effects associated with similar revolutions in indussummer of Crosfield Electronics by De La Rue, the specialist and banknote printer, displayed all the symptoms of a volatile high technology busi-ness. Crostield, one of the UK leaders in electronic colour page composition systems, has a £3.6m contract for colour printing equipment with News International, whose titles in this country range from The Times and Sunday Times to the Sun and Today.

Mr Jim Salmon, managing director of Crosfield, expects the Sun to be the first UK daily to appear in full colour, with the rest of the popular newspa-pers not far behind. The process of re-equipping UK daily newspapers for colour printing still lags some way behind the

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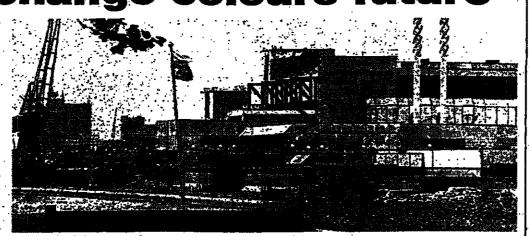
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The drive towards colour publication among UK newspapers, both dailies and weeklies, has been fuelled by the two most significant features of newspaper publishing develop-ment in the late 1980s. The first and most obvious has been the . proliferation of new titles. After decades when new entrants to the newspaper excluded by beavy start-up charges and then by near-crip-pling nightly printing costs, the industry is alive to plans for new newspapers, dailies and Sundays. Nor has the conspicuous failure of several ven-



The Dally Telegraph's new building in the Docklands development, London

The most recent outburst of activity has come on the Sunday front, where the Sunday Correspondent has already hit the streets while the Independent on Sunday is due early

The Sunday Correspondent, with two sections and a magazine, displays clearly the sec ond phenomenon among recent trends in newspaper publishing. After a lengthy and some-times uncertain start, the principle of incorporating extra sections in both daily and weekly newspapers now

The newspaper world may need lessons from magazines

appears to have established

This proliferation of separate sectors inserted or added to the basic newspaper has quickly found favour with both readers and advertisers. The newspaper magazine sections require the application of both colour printing and colour pagination techniques. That implies a significant upgrading of forecasts for the new electronic printing techniques and equipment needed for colour work and for pagination.

The newspaper world may need to take lessons from the magazine industry in recognising that the time span available for the introduction of new techniques is often consid-

tures proved any discourage- erably shorter than managements might like. Magazines have sometimes been able to move more quickly than daily

and weekly newspapers.

Magazine publishers have by tradition farmed out a large proportion of their printing problems. Once they saw the advantages to be obtained from new printing techniques, they were able to reshuffle their in-house editorial systems, and then switch their printing con-tracts to whichever contract printer was quickest off the

They made swift use of the expansion of data transmission systems to produce up-to-the-minute tables of sta-tistical data. The big, well-established US business magazines took the lead in this field. For similar reasons, the magazine publishers have been

quick to seize the opportunities for colour printing. This has been applied not merely in the use of colour photography, which already had a high pro-file in the magazine world. Col-our printing has appeared more directly in the use of colour-coded charts, again in the business magazines, and in the wider use of coloured graphics.

However, magazine publishers now see the opportunity to achieve by means of the latest electronic techniques what has always been the industry's ultimate objective: instant, regular and reliable printing of a magazine that sells throughout the world, or at least throughout a market sharing a single lan-

This implies continued pressure for high quality transmis-

sion of data, colour images and editorial, with desk-top electronic terminals taking on more and more of the roles required in more book publishing and similar operations where the accent is on static and less fluid publication

The magazine industry has already reaped much of the benefit that new technology has brought to the pre-press area. To achieve successful. instant, global publication, the magazine publisher needs to tighten up the "closing time" of the publication, the tying together of pictures and text under merciless deadlines when there is no longer any time to spare for catching up on errors or late deliveries. The problems involved spill over from purely industry questions, such as the application of more powerful electronic terminals, into such wider areas as the state of telecommunications networks in par-

ticular countries. The time when newspaper and magazine owners could think of technology in terms of decades has long gone. It is already clear that Fleet Street's Great Excursion from the centre of London to Docklands is only a first step into a new

The pressures on both newspapers and magazines in the UK have become so acute that the pace of change can hardly be exaggerated. With new publications, planned and actual, pressing forward on all sides, it is not surprising that the tech-nology available is evolving almost from month to month.

PUBLISHING

Wait for the imprint of the copier

TECHNOLOGICAL CHANGE in the book publishing indus-try has gone hand in hand with changes in readership habits and with wider-ranging

A glauce at any airport bookshop will filustrate both points; there is, indeed, a new market for books but publishers are satisfying in with mar-keting techniques learned in the consumer product business. Some of these changes stem directly from the industry's move from the tradi-tional flathed letterpress operation to offset lithography, while others seem to have pro-vided the motivation for tech-

nological change. The introduction of litho printing has done wonders for profit margins, although the publishing world is in at least two minds over the wider implications. Rows between authors and publishers, once of only parochial importance, have this year found their way onto the pages of the national newspapers. The virtual demise of the Bodley Head, one of the oldest and most cted London publishers. came hard on the heels of the sale of Century Hutchinson to Random House of the US for £64.5m, a sum which reflected the industry's propulsion into the mega-corporation aren

All this seems a far cry from the hopes, once widely entertained, that cheaper, desk-top electronics would mean a boom in small publishing enterprises or even do-it-yourself novelist publishers.

Contrary to these predictions, the number of genuinely independent UK publishers is decreasing, and those still in business are finding themselves under heavy in terms of production, appear to have benefited the Rig Battalions rather than the cottage industry.

One reason has been that

litho printing has proved easy to do but not so easy to do well. Litho's great advantage is speed, but the ability to out-strip the old letterpress ines fivefold has ope the door to careless printing. Complaints from readers of typesetting and proof-reading errors, not to mention deeper betrayals of the finer points of print-lettering, appear to be on

In part, this is because once



A 96-page paperback book press manufactured by Strachan Henshaw Machinery, installed at Cox & Wyman, Reading

With higher education now

under its own financial pres-

sures, academic budgets will

flow increasingly towards the

smaller, cheaper publisher, and it is doubtful if the big

houses will seek to expand into this market. However,

university spending on books

has fallen by about one third over the past decade, a trend which spells ill for this sector of the publishing trade. DTP can also be expected to

hold its own in the expanding

market for in-house publica-tion of research or information

data. The City of London has

seen a substantial increase in

this area of publication, and most of its research material is now "published" in the sense

that it is made available to

clients outside the firm on

payment of a fee.

But it will be difficult for

DTP to expand into the main-

the new technology is in place, there is less inclination to accept wage costs for reading and checking the page proofs before pressing the magic but-ton which sets the copy on its route towards the printed book. Printing costs are still a surprisingly small proportion of retail prices for books md 15 per cent, according to the major publishing houses. The rest goes on distri-

high-powered marketing. The new printing techniques have proved better suited to some forms of publishing than to others. High quality reproduction of colour photographs, to take an obvious example, lends itself easily to this form of production. The processing of "information data," which can be presented in tabular form, is also suited to litho

Some critics would claim that litho printing implies inferior reproduction of text, but there is little objective evidence of this. The best letterpress printing was always excellent, as can be the best litho work. The overriding factor is, of course, the cost: there can be no return to the days of fine printing craftsmanship

for its own sake.

The way ahead for the book publishers is likely to be sures as much as by technology. Desk-top publishing will certainly remain an important ector of the business, particularly for the production of short-run academic and techni-

international fiction block busters or the coffee-table spe-cials, because so much of the success in this field deg on heavy promotional and marketing efforts.

However, there are other areas from which the existing publishers could be chal-lenged. Just as the UK publishing industry has seen a ruthless pruning of smaller firms and a simultaneous strengthening of the Big Battalions, so has the international publishing universe seen an increase cross-border or cross-Atlantic operations.

moved from the US to British television screens, so have the multi-sized blockbuster novels familiar to the new generation of fiction readers. These novels have largely bypassed the lending libraries which were the conventional entry routes

Further incursions into UK publishing could well involve the application of new print-ing techniques which have to date barely established them-selves. The most feared pros-pect is the application to book publishing of photographic printing, essentially the appli-cation of the same techniques as the office copier to largescale printing.

Copier, or non-impact printing, is a likely next step for the UK industry and, as matters stand at present, it could only come from abroad. Japanese expertise in photo-copying could well be the area to watch for publishers seeking the next area of development.

UK PRINTIN	G BUS	NESSI	es: Mo	RE SA	IALL F	1RMS
Number of employees	1982	1983	1984	1985	1986	1987
1-9	7,582	7,924	13,316	14,476	15,243	15,484
10-19	1,764	2,287	2,147	1,963	1,883	1,831
20-49	1,079	1,005	1.005	1,114	1,187	1,235
50-99	371	344	337	334	364	385
100-199	219	209	213	226	215	282
200-299	84	81	85	100	93	95
300-399	44	50	52	46	48	· 46
400-499	32	25	21	25	- 26	30
500-749	30	31	33	32	32	33
750 -999	16	17	15	18	16	15
1000-1499	12	13	8	7	7	11
1500-1999	7	5	6	´ 5	4	5
2000+	12	11	11	12	· 10	7
TOTAL	11,252	11,362	17,299	18,358	19,128	19,409

Kiss the grey, to go in off the grey

and leave the grey snookered behind the grey.

Silly?

Only as silly,

in fact, as not being able to print a full colour advertisement or editorial photograph in a daily newspaper when the message demands colour.

And only as silly

as not having the flexibility to select these colour images when they are available and to place them on the right pages.

In choosing its new printing presses, a Goss Headliner Offset T 70, the Financial Times has provided itself with the benefits of including living colour images in their newspaper; and of selecting these images as part of the editorial creation of this prestigious daily newspaper.

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infiltrated most industries, they have also permeated most operations of most industries.

The printing industry is no exception. From the creation of images and text through to their manipulation and layout, from the moment the presses run until the moment when the items are sold to the customer or returned to the original supplier - through all of these processes computers have become abiquitous and nave occume uniquitous and increasingly essential for the efficient production and distribution of printed matter.

The effect of that computer-

isation on the various sectors of the printing and publishing industry has not been insig-

The high cost of computer-ised and automatic identification equipment, as well as the price of their successful

COMPUTERS have not only implementation, can put such infiltrated most industries, systems beyond the pockets of many businesses. The benefits of such systems are nevertheless real - in terms of smaller and more flexible runs as well as quicker turnaround times.

The effect of investment in computerised technology is to give significant competitive advantage to the larger companies which have the means to invest in such equipment.
One of the most startling

examples of this double revolution - in both technology and in transforming the market - has been in the UK pre-press business where Wace, which now claims to be the largest pre-press company in the world, has achieved rem-arkable results. From being a shell in 1983, the company's turnover was £75.5m during the first half of this year, when profits reached £3.4m.

R	RITAIN'S TOP	25 CO	MPAN	IES IN P	RINTING
	Company	Turnover	Pre-tax	Pre-tax	Aest eug
,		(£m)	prolit	margin (%)	
_	MCC Print	669.4	66.2	9.9	31,12.87
1	DRG	507.4	40.7	8.0	31.12.87
2	Lawson Mardon	495.2	21.5	4.3 -	31.12.87
4	De La Rue	483.6	62.4	12.9	31.3.88
5	Jefferson Smurfit	278.6	-	-	31.1.87
		272.9	35.6	13.0	30.9.88
6	Norton Opax.	268.2	30.6	11.4	30.4.88
7	David S Smith	172.5	17.6	10.0	2.4.88
8	Waddingtons	167.3	23.0	13.7	31,12,87
9	St Ives	127.6	11.3	8.9	27.12.87
10	Ferguson Ind			44.0	2.10.87
11	W M Coilins	108.9	13.0	11.9	31.3.87
12	Hunterprint	95.6	6.4	6.7	31.12.87
13	Ben Johnson	76.2	4.8	6.3	31.12.87
14	McFarlane	67.1	5.6	8.3	31.12.87
15	Watmoughs	53.9	4.8	8.9	31.12.07
16	Goodhead	49.0	3.6	7.3	31.5.87
17	Jarrold	46.2	3.9	8.5	31.1.87
18	Moore Paragon	45.3	1.1	24	31.12.87
19	Kalamazoo	44.6	1.2	2.6	31.7.87
20	Bemrose	43.7	4.4	9.9	2.1.88
		43.4	22	5.0	2.10.88
21	Williams Lea	43.4	3.4	8.0	31.12.87
22	Standard Check	43.0	4.8	11.2	30.9.88
23	Parkway	42.9	2.6	10.6	1.3.88
24	Norprint Cundell	34.9	2.7	7.8	31,12,88
25	COURSII				Source: Lithowes

performance of paper from different suppliers. This, claims Mr Scragg, puts a formidable weapon into the hands of the printer when he approaches the paper

"Now that manning levels are so much lower, the crew tends to be far less interested in recording problems than in just getting them fixed," says Mr Scragg. "The information technology system automatically records them.

"If you could reduce waste by just 0.1 per cent that can represent a saving of hundreds of thousands of pounds," he adds. "It also saves quite a lot of trees - a not inconsiderable consideration at a time of growing environment consciousness."

Data supplied by the management information management information system can also be used in other areas. Mr David Rates, head of the industrial organisation at Mannesmann Information Systems in the UK, points out that because such systems can also follow the quantities of paper and ink being used as well the amount of time taken for a run, the accuracy of job costing. invoicing, stock control and accounts can be significantly improved. For larger companies, with a number of sites, management information systems can also be used to allocate jobs to resources.

Crosfield Press Controls believes that because of such advantages the market for management information systems will grow extremely fast over the next few years. Mr Scragg says that in 1990 the market could be 60 to 80 per cent larger than this year, though he admits this is from a low base. He adds that the company has been amazed by the amount of interest sed during the past 12

The effect of this technology

on the printing market could be similar to that in the pre-press market. Mr Scragg says that the cost of the technology at the moment the price of a system can range from £10,000 to £100,000 for a single line - could concentrate business in the hands of the larger groups, at least until the entry cost for such systems falls. However, the company is trying to bring down the cost of low-entry systems in an effort to make it easier for smaller houses to invest in

They are becoming increasingly an integral part of the printing process

The commercial development of satellite technology — which should allow the worldwide transmission of high resolution colour graphics at guaranteed reproduction quality - should accelerate the concentration of reprographic business in the hands of groups like Wace. However, for the suppliers of

pre-press page composition technology - which involves the digitising and manipulation of images — growth has not been as constant. The two market leaders in the field, Scitex of Israel and Crosfield Electronics, formerly owned by De La Rue, the UK security printers and now jointly owned by Dupont of the US and the Japanese company Fuji, have both experienced

difficulties in recent years. So too has Hell, the West German supplier of electronic page composition systems owned by The consistently high cost of research and development in high resolution graphics and

the cyclical nature of the market helped create the fall in

Crosfield's profits from £21.1m in 1987 to £5.2m in 1988. That decline helped drive down De La Rue's overall profits by 57 per cent. Scitex had experienced a similar downturn in the early 1980s.

In the medium term, these companies will have to come to terms with competition from the manufacturers of increasingly powerful micro-computers, such as Apple Computer, which have more experience in selling high volume low-cost items. Both Scitex and Crosfield recently launched high performance micro-based systems.

One commentator at Pira, formerly the Printing Industry Research Association, believes that if these companies are to survive, they will have to start specialising in software and systems integration rather than specialist hardware platforms.

Nevertheless, the long-term potential for such companies, with their expertise in high-resolution colour graphics, is considerable. That graphics, is considerance. is indicated by Mr Robert in Maxwell's involvement in Scitex and the decision of Dupont and Fuji to acquire

Crosfield Electronics.
At the bottom of the front-end market, desk top publishing, which has been one of the most dynamic sectors in the computer market, has been slowing down.

The Market Intelligence Research Company based in California and Belgium estimates that the rate of growth in the US market has slowed from 123 per cent in 1987 to 73 per cent in 1988. It believes that the slowdown will continue to 1990 when the rate will be about 19 per cent. An increasing percentage of the market will be made up of software.

But computers are not only being used as front-end systems. They are also inc-

reasingly becoming an integral part of the printing process.

Two groups have identified management information systems linked to presses as being electriciant country are also for significant growth areas for the future. Mannesmann Information Systems, the UK subsidiary of the West German engineering group, and Cros-field Press Controls, a division of De La Rue, are marketing

such systems heavily.
One of the main advantage
of such systems is that they can reduce waste Mr Ray Scragg, product manager for management information systems at Crossieid Press Controls, explains that camera technology has now reached the point at which it is possible to monitor fast moving web accurately.

This accuracy means that the printer can identify waste in real-time as it passes through the print process and then automatically divert the waste — as much as 20 per cent of the reel - into a waste

The system will also identify where the waste occurs, whether through web breaks make-ready waste, folder waste, mis-register waste or splicing. In theory, such information

in meory, such information can help managers improve the efficiency of their company's operations. Waste can be minimised either by adjusting the plant during the run or afterwards by analysing the

PACKAGING

The limitations of laser coding

FEW INDUSTRIES stretch the application of printing tech-nologies as challengingly as

the packaging industry.

Coding and marking methods vary, depending upon the needs of the user. The type of material to be marked, the plant environment and many other factors will determine ink selection and the marking method to be used for provid ing the best results.

Laser coding has received widespread acceptance for packaging applications. Products travelling at line speeds in excess of 2,400 a minute can be marked on the fly, without blurred characters.

But there are limitations to laser coding. For example, inked labels are essier to mark than a PVC container. The ability to mark a surface prop-erly depends on the distances between various components within the system. Systems must be custom-designed for the distances necessary achieve the desired mark.

That mark may be create by several means. Ink-coated materials, such as carrions and labels, are marked as the laser vaporises the surface coating of ink to reveal the paper or chiphoard surface underneath. This etching also causes a frosted appearance on most kinds of glass. Certain materi-als react to laser by blistering

slightly at the surface. According to Lasertechnics, US-based specialist supplier of laser printing equipment, packaging applications for laser technology tend to be in marking labels or cartons. But other materials suited for laser marking include glass, costed metals and plastics.
Additives such as china

clay, titanium oxide and tale can improve the mark quality. Uncoated metals cannot be marked as they reflect, rather than absorb, laser energy. The most common coding applica-tions are for date and lot code information arranged within one or two lines, but bar codes and prices are also common.

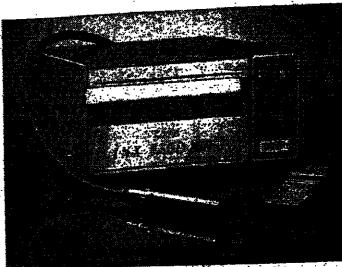
of increasing interest is the use of laser coding to facilitate generic packaging, for exam-ple in connectics or antennotive parts, where the difference between packages may be minor. However, where the coding of oddly shaped containers is important, the eram subtractions of the pie sor contract of the con

As each system must be designed for a specific application, changes in materials, packaging lines or mark loca-tion must be considered in advance. Failure to do so may limit the ability to change over the system without some redesign.

Drug and cosmetic contract Drug and commetic contract packaging requires the ability to handle a wide variety of shapes and sizes. Regulations may require a variety of batch coding and other identifica-tion. The ability to print legi-ble but unobtrusive codors on designer bottles is important. This means that packaging lines have to be equipped with batch coding equipment.

Though ink jet printing

technology, stemming from research in the computer industry, has had limited suc-



cess in penetrating the market for mainstream computer printers, it has found a niche advantage over other technologies, including laser. Ink jet equipment is cheaper tha laser, and usually takes up less space. However, the expe ted useful lifetime of laser co

ing equipment is more than twice that of ink jet coders.

One important advantage of laser coding is the elimination

fective for the user's not accurating to Kiwi Coders Cor-poration. Friction driven coden for use on corrugated cases are mexpensive on line devices able ink cartridges. Friction driven coders are

used to imprint date codes, production descriptions, sequential numbers and other variable data on one or more

Ultraviolet curing provides reduced machine maintenance, higher quality imprints, quicker drying times, lower ink toxicity and easier environmental compliance

of ink and its associated prob-lems of hazardous ink waste disposal and maintenance.

Improvements are always being found, none the less. The control print division of Dennison Manufacturing, for example, is developing utraviolet curable inks as an alterviolet curable inks as an alterviolet. native to conventional ink systems for improved adhesion to films, foils and untreated materials used in the parkag-

insterials used in the parkaging industry.
In pharmaceutical and food manufacturing, the need for permanent. fast drying imprints without the use of volatile solvents has always been recognised. The unique characteristic of this link is the ability to dry through the pitrayloist entities arocess.

printhesed for an indefinite period of time while drying on a wide variety of surfaces instantly at speeds of up to 200

Ultraviolet curing provides luced machine ma bigher quality imprints, quicker drying times, lower ink toxicity and easier envi-ronmental compliance, as well as improved imprint perma-nency on a wide range of sur-face materials. When evaluating on-line versus off-line marking or coding, the manufacturer must take into account the desired imprint quality, production speeds, lot run sizes, number of message lines, message location and

On-line printing may be more desirable, but may not always be practical or cost-of-

es. They are easy to maintain and service, and quality depends on the attention given to them by production line

But friction driven codern can distort case panels. Filled case contact printers provide better quality. For high quality imprinting and applica-tions which require a large amount of copy, off-line flat case printers are recom-mended. Flat case printers can paint all six panels on cases at speeds up to 5,000 cases an

The same principles apply to printing paper or plastic bags. Automatic bag printers are available for printing variable information on one side of flat anincy in any process paper bags, feeling and stack-nitraviolet curing process paper bags, feeling and stack-mine in the control of the control of the speeds up to 30 x min-

> heights from three-eighths of an inch to three inches with line speeds up to 200 feet a

Most applications are on absorbent surfaces such as corrugated cases or paper bags where the ink dries by absorption. Inks for non-porous surfaces are also available but may require several minutes to dry, depending on the sub-strate. Forced hot air drying may be recommended for some

applications. Kiwi Coders predicts that contact printers will become simpler with fewer parts, using improved inking systems. Contact and non-contact printers will be combined

Boris Sedacca

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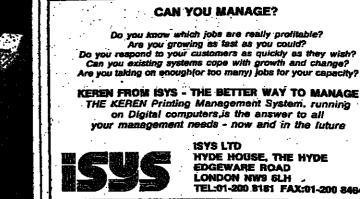
its compact, high performance system is base on the so-called WYSTWYG principle - what you see (on the screen) is what you go (on the label). It marks the atest stage in a new technology development drive for the Liverpool company.

this labelling system," says Mr Len Bedford of Lawtons. To back up its ease operation claims, the company will provide on alle vallens without any The system can operate with either dot matrix (left), or direct thermal (right) prints ogos, ID marks and gra as well as har code

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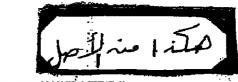


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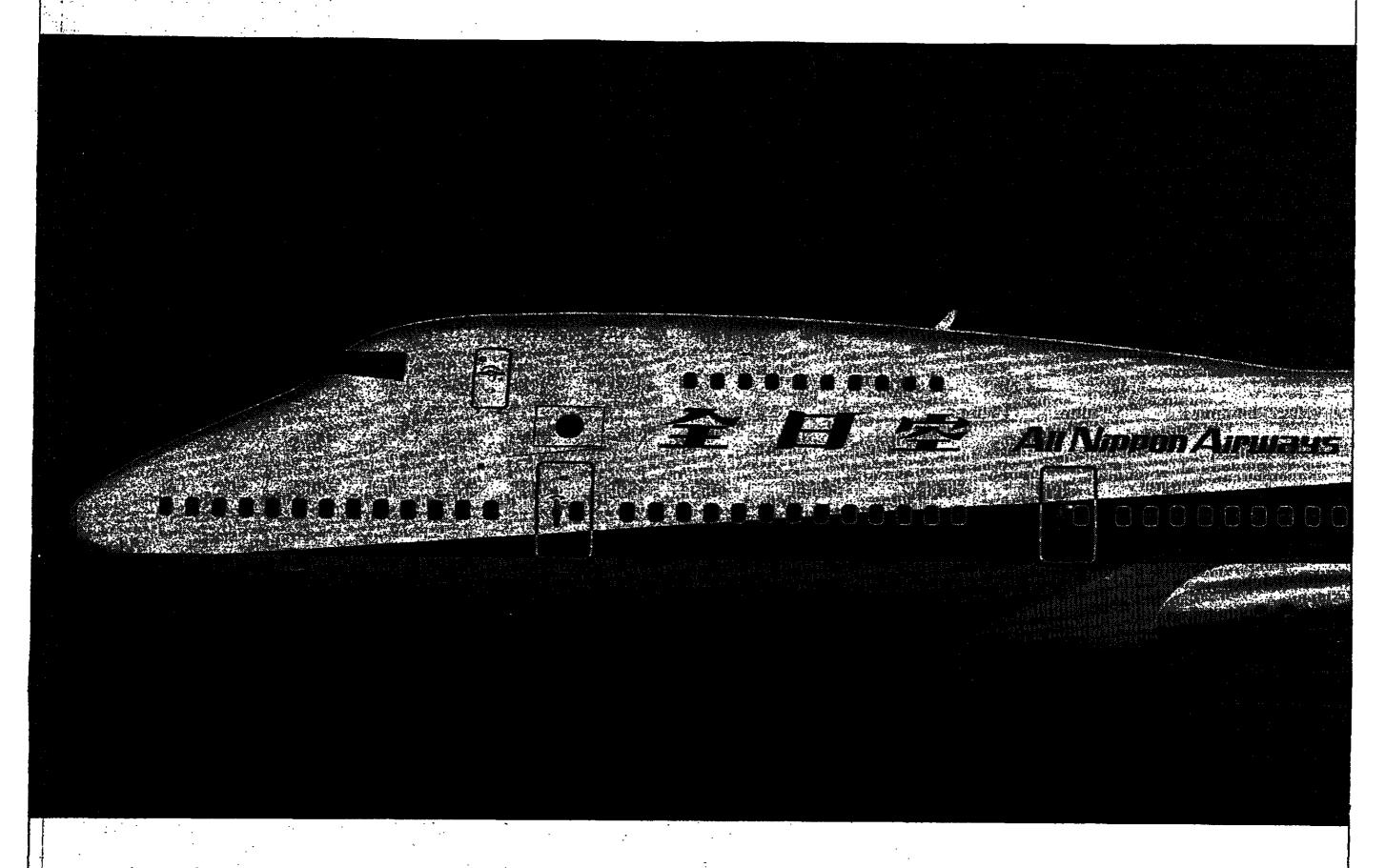
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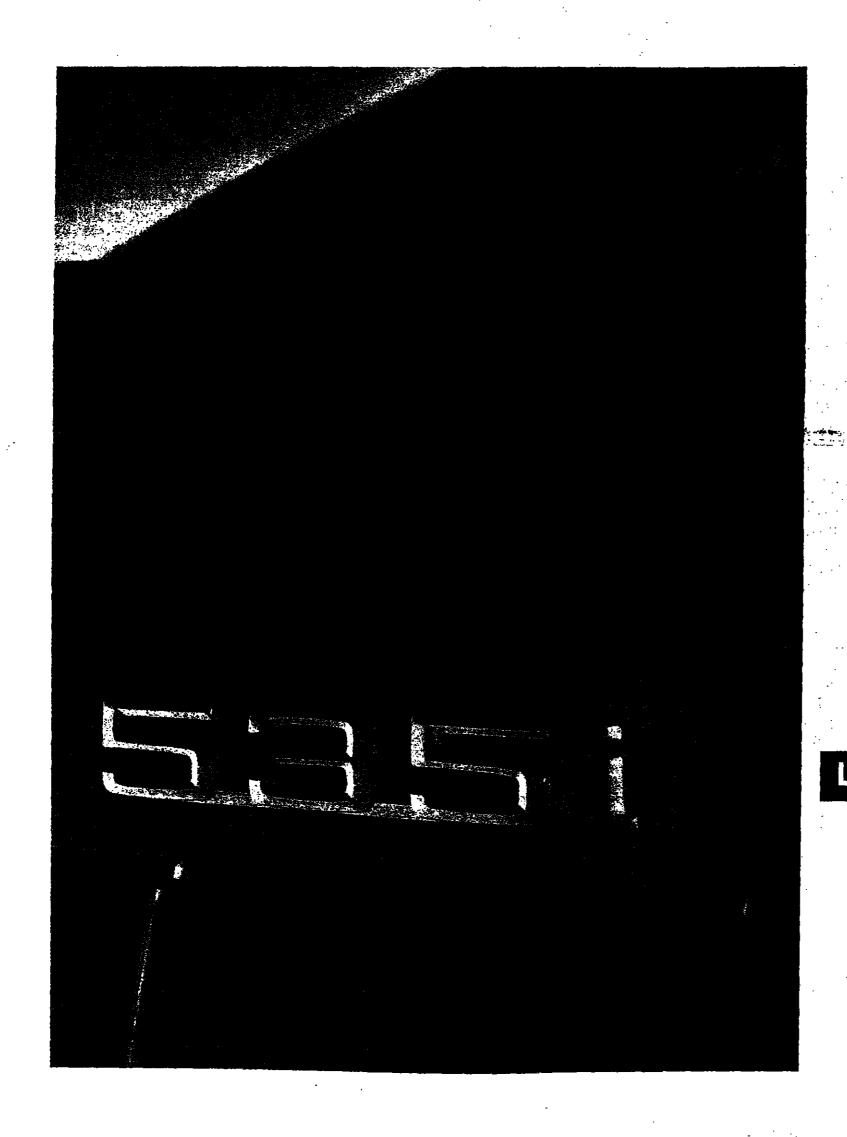
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CONDON (LE	ON (Law) - TOKYO (NSC)					TOKYS (NAT) - LONDON (LSW)						
LONDON		NRZ92 18:55		(TUE.)	15:45.TUKYB	TOKYO	(MOXT)	NR283 10:45(MON.) 14:55 MOSCOW (MOR.) 16:15(MON.) 18:5	SS LONGON			
LONDON	(MEDT)	EE294 13:39	(WED.) 19:55 MOSCOW (WED.) 21	:15(TEGEL)	12-20 TOKYD	TOKYO	(TUE.)	NH201 11:20	to Landon			
LONGON	(TEE)	NIX 202 17:98		(FILL)	13:50 TOKYO	TEKYE	(130E.)	NH291 11:29(THURL) 15:1	re Lenden			
TOHBON ((2/0.)	HEIZEZ 17:00		(SIML)	13:58 TOKYO	TOKYE	(SAT.)	MH201 11:29 (SAE) 15:1	e LONDON			



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FT Conferences: World ship-

The Henley Centre: The UK

economy in the 1990's (01-353

Cavendish Conference Cen-

FT Conferences: World electric-

Hotel Inter-Continental.

Acquisitions Monthly: Post-ac-

quisition management (0823

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reserving in the London insur-

ance market - assessing your

Portman Hotel, London

in the City (01-868 4466)

The Park Lane Hotel, Lon-

November 10

November 13-14

November 14-15

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DIARY DATES

FINANCIAL

TODAY COMPANY MEETINGS Murray Income Tst., 7, West Nile Street, Glasgow, 10.30 BOARD MEETINGS-Allied London Properties Lucas Inds. Pict Petroleum Shandwick Amer Gro Boriand Inti. British & American Film Hidgs.

Centreway Tst Diamond Grp. Hammerson Properties DIVIDEND & INTEREST PAY-Abbott Mead Vickers 2.4p Bank of China Fitg. Rate Nts. 1992 \$526.74 Black (Peter) 1.75n Britannia Arrow 2.3p Christiania Bank OG Kreditkasse Fitg. Rate Sub. Nts. Oct.1997 \$536.37 Church & Co. 3p

Daniels (S.) 1.25b Die Erste Osterreich Spar-Casse Sub. Fitg. F Nts. Apr.1992 \$536.37 Johannesburg Cons. 1500cts. Nat West Finance Gtd. Fltg. Rate Cap. Nts. 2005 \$526.74 Persimmon 2n Ragian Property 0.165p

Scottish Eastern Inv. Tst. 1.15p Texas Instruments 18cts. Wilson (Connally) 1.15p TOMORROW COMPANY MEETINGS-

Gold Greenless Trott, Le Meridien Piccadilly Hotel, W., 11.00 MAI, international House, World Trade Centre, E., 12.00

Mainmet Hidgs., Pennine Hilton National Hotel, Ainley Top, Huddersfield, 12.00 Osprey Comms., 9, Moorfields Highwalk, E.C., 10.00 Precious Metals Tst., 15, St. James's Place, S.W., 3.00 Waterman Partnership Hidgs., Apothecaries Hall, Blackfriars Lane, E.C., 12.00

BOARD MEETINGS-Cooper (Frederick) Ensign Tst. Scottish Metropolitan Property

Interims: Chepstow Racecourse Denistron Intl.

Ingham (George) Shell Oil Co. Value & Income Vivat Hidas. DIVIDEND & INTEREST PAY-MENTS.

Berkeley Govett 6cts.
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Bristol & West Bidg. Society
Fitg. Rate Nts. 1992 Fitg. R £178.01 Britannia Bldg. Society Fltg. Rete Nts. 1996 2355.4 Co-operative Bank Sub. Fitg.

Rate Nts. 2000 £178,01 Hartons Grp. 0.1p Industrias Penoles Fitg. Rate Nts. 1989 \$255.56 Lloyds Bank Series A Var. Rate Sub., Nts. 1998 Mezzanine Capital BDS Ptg.

Osprey Comms. 2.4p Tops Estates 1.5p WEDNESDAY OCTOBER 25 COMPANY MEETINGS-Davies (D.Y.), Barber-Sur-

geons Hall, Monkwell Square, E.C., 11.00 Merivale Moore, Savoy Hotel, Strand, W.C., 12.00 Triton Europe, Stationers' Hall, Ave Maria Lane, E.C., 11.30 BOARD MEETINGS-

Alva Inv. Tst. Barrett (Henry) Overseas inv. Tst. Atlantic Resources Chevron Corp. Elliott (B.) English Nat Inv. Jacob (W. & R.)

Plastiseal Shiloh Upton & Southern Usher Walker Walker Greenbank

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(Class B) 1p Treasury 10% Gv. 1990 5pc. Westminster & Country Props. 12_D THURSDAY OCTOBER 26 COMPANY MEETINGS-CALA, 42, Colinton Road,

Edinburgh, 10.00 Gabicci, Gabicci House, Humber Road, N.W., 4.00 Haynes Publishing, Sparkford Motor Museum, Sparkford, Somerset, 1.00

Craig & Rose

NEC Corp.

Delyn Packaging ERA Grp.

Hopkinsons Hidas.

Waverley Mining

Breedon 1.5p

Davies (D.Y.) 3.5p

Davis (Godfrey) 2.6p

0.135p Goodhead Grp. 3.75p

Do. 6% Cm. Pl. 2.16p

Jacobs (John I.) 1.5p

Lowe's 12cts. Matthews (Bernard) 1p

Metairax Grp. 0.96p

Do. 9.1875% 4钱pc.

Do. 9.15% lss 3 4.575pc. Do. 9.15% lss 4 4.575pc.

Do. 9.15% iss 5 4.575pc.

Do. 9.15% Iss 6 4.575pc.

Do. 9.15% iss 7 4.575pc.

Do. 9.15% Iss 8 4.575pc.

Paragon Comms. 1.4p

SWP Grp. 0.5p Saville Gordon (J.) 1.6p

Trinity int. Hldgs. 2.3p

PAYMENTS-

91 4.77pc.

Waterman Partnership Hidgs.

Wyevale Garden Centres 1.8p SATURDAY OCTOBER 28

Pacific Dunlop 9.48% Med.

Term 28/10/91 4.74pc.

Do. 9.54% Med. Term 28/10/

DIVIDEND & INTEREST

Do. 9.05% 4.525pc.

Pickwick Grp. 1.25p

Ricardo Grp. 3.65p

Seacon Hidgs, 1.2p

Sedawick Grb. 40

Sumit 1.5p

\$265.29

Norish 4.47p

Hall Eng. 6.6p

7.5sen

Lopex 2.9p

Helton Hidgs, 1.1p

Ferguson Ind. Hidgs.

New Throgmorton Tst.

Bank of Nova Scotia 23cts. Baynes (Charles) 0.25p

Bourne End Properties 1p

British Mohair Hidgs. 1,4p Brunning Grp. 3,25p

Epwin Grp. 1.8p Exchequer 13¹2 % 1994 6³4 pc. Exchequer 15% 1997 7¹2 pc.

Fieming Technology Inv. Tst.

Highlands & Lowlands Berhad

Nat West Finance Gtd. Fitg.

Nurdin & Peacock 1.68p Pacific Dunlop 8.98% Med.

Term 27/10/89 4.49pc.

Norfolk Capital Grp. 0.21p

Rate Cap. Nts. 1992

First Leisure Corp. 1.125p

London Merchant Securities, Cartton House, 33, Robert Adams Street, W., 12.00 Platon Intl., Platon Park, Via-bles, Basingstoke, Hants., 10.00

Sirdar, Cedar Court Hotel, Tor Inv. Tst., City of London Club, 19, Old Broad Street, E.C., 12.00 BOARD MEETINGS-British Assets Tst.

Investors Capital Tst. Kalamazoo Majedie Invs. National Home Loans Pegasus Rand Mines Airflow Streamlines

Brown (J.) Channel Tunnel Invs. Moss Bros Group DIVIDEND & INTEREST PAY-

MENTS-Australia (Commonwealth of) 1138 % Ln. 2015 516pc. BPP Hidgs. 4p Bank of Montreal 103, % Dep. Nts. 1990 5 % pc. Benchmark Grp. 0.875p Descutter Bros 3.6p Inv. Tst. of Guernsey 0,625p Lambert Howarth 3p Malaya Grp. 0.75p Merchant Manufactory Estate

Needler Grp. 3.15cts. Neill (James) 3.1p News Int. 9% Gtd. Bds. 1990 Olives Hidgs. 3p Rotork 3.5p Sinclair Goldsmith 3.5p Sunset & Vine 1.5p

Travis Perkins 250 Wimpey (George) 4p FRIDAY OCTOBER 27 COMPANY MEETINGS-Assoc. Nursing Services, Meadbank Nursing Home, 12, Parkgate Road, S.W., 4.00

Optical & Medical Intl., 2. Lowndes Place, S.W., 12.00 Really Useful Grp., Palace Theatre, Cambridge Circus, W., 11.00 **BOARD MEETINGS**-

Clydesdale Inv. Tst. GČ Flooring & Furnishings Star Computer Central & Sheenwood Clayton, Son & Co.

Trade fairs and exhibitions: UK

London Motor Fair (01-385 1200) (until October 29) **Raris Court** Home Interiors Exhibition

(01-885 1200) (until October 25) October 24-26 International Leisure Business Week Exhibition (0372 372842) NEC, Rirmingham

October 24-26 Omnec: The fibre optics users exhibition and conference (0223 Barbican Exhibition Hall, Lon-

October 26-29 National Knitting Exhibition November 2-5 London Money Show MONEY (01-940 2244)

November 7-9 International Banking Exhibition (01-749 9535) Barbican Exhibition Hall.

Overseas exhibitions

International Robotics, CAD/ CAM, Automation Engineering Exhibition - PRODUCTIQUE (01-225 5566) (until October 26)

International Electronics, Com-(01236 2399) (until October 27)

International Clothing Textiles Trade Fair - INTERSTOFF (01-734 0543)

November 8-11

November 7-12 Kensington Antiques Fair

Kensington Town Hall November 11-19 Show (01-222 9341) Rarls Court November 12-16 Wholesale Buyers' Gifts Fair

(01-855 9201) November 14-16 International Coil Winding Exhibition (0799 26699) NEC, Birmingham

November 14-16 Industrial and Domestic Heat-ing, Ventilating and Plumbing Exhibition (01-680 7525) November 14-17

International Bus, Truck and Car Product and Manufactur-ing Technology Exhibition and Olympia Conference - AUTOTECH (021-780 4171) NEC, Birmingham

nuters. Materials and Semi-Conductors Exhibition - IECM

October 31-November 2

International Office Environment Exhibition (01-486 1951) November 14-18

International Maritime Equip-ment and Inland Shipping Exhibition (01-495 7977) November 15-19 International Machine Tools

and Metalworkings Trade Exhibition and Conference – THAI METALEX (0494 729406) November 21-25

Furniture and Woodworking Machinery Show (01-379 0765)

Business and management conferences

International Business Communications: Third annual conference on the management and marketing of unit trusts (01-637 4383) London Marriott Hotel, W1

October 27 CBI Conferences: Manufacturing: Maintaining the momen-tum (01-379 7400)

October 30 The Watt Committee on Energy: Energy: Today's decisions, Tomorrow's world (01-379 6875) Guildhali, London

October 30
The Institution of Mining and Metallurgy: Mining finance (01-580 3802) October 31-November 2

Blenheim Queensdale: UK national conference on paperless trade (01-727 1929) Queen Elizabeth II Conference Centre October 31-November 2

Financial Times City Seminar (01-925 2323) 1-925 2323) Plaisterers Hall, City of Lon-don

November 2 Concorde Services: Advertiser supported TV: threat or opportunity? (01-743 8106) Hilton Hotel, London

The Chartered Institute of Management Accountants: Practical pricing policies (01-637 2311)

Crowne Plaza Hotel, Man-chester November 6-7

fund practical examples (01-637 Financial Times Conferences:

Anyone wishing to attend any of the above events is advised to telephone the organisers to ensure that there have been no changes to the details published

PARLIAMENTARY

Commons: Social security Children Bill, remaining stages. Lords: Local Government and Housing Bill, report.

Commons: Defence questions. Opposition motion on interrates and economic policy. Children Bill, remaining

Lords: Local Government and Housing Bill, report.

Commons: Foreign and Commonwealth questions. Companies Bill remaining

stages. Lords: Local Government and Housing Bill, report. Grand Committee: subjects, the valleys programme and the NHS in Wales. (Room 10, 10.30 a.m. and 4 p.m.)

Environment: subject, contaminated land. Witnesses: National Rivers Authority. Environmental Resources. (Room 21, 10.30 a.m.)

Agriculture: subject, land use and forestry. Witnesses:

the Forestry Commission. (Room 20, 10.45 a.m.)

Energy: subject, industrial and commercial gas prices. Witness: Mr James McKinnon, director-general, Office of Gas Supply. (Room 8, 11 a.m.)
Trade and Industry: subject, future of the Export Credits

Gnarantee Department. Wit-ness: Lord Trefgarne, Minister for Trade. (Room 15, 11.30 a.m.) Employment: subject, tour-ism. Witness; London Tourist Board and Convention Bureau. (Room 20, 4.15 p.m.) Home Affairs: subject, racial

nesses: Home Office officials.

tions.

(Room 15, 4.15 p.m.)

Questions to the Prime Min-Companies Bill, remaining

Commons: Home Office ques-

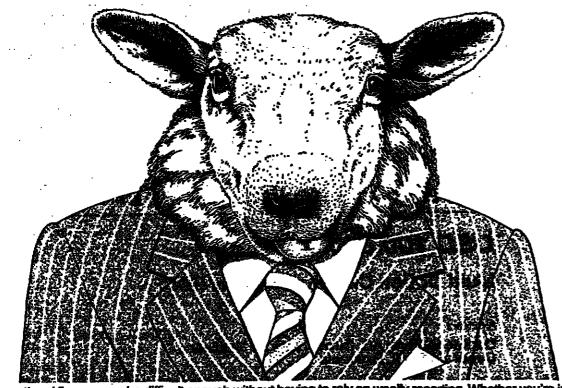
Commons: Football Spectators Bill, ways and means resolu-Prisons (Scotland) Bill, con-

Statute Law (Repeals) Bill,

consolidation measures.

SEPTEMBER 1989

SOME WILL ACCEPT WOOLLY REPORTING



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NEW ISSUE

These Bonds having been sold, this announcement appears as a matter of record only.

ARISTON

♦indesit

Italian Lire 100,000,000,000

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9% Convertible Bonds due 1999 Unconditionally and irrevocably guaranteed by, and convertible into Ordinary Shares and Savings Shares of,

Merloni Elettrodomestici S.p.A.

(incorporated with limited liability in the Republic of Italy)

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Lazard Brothers & Co., Limited

Monte dei Paschi di Siena

Paribas Capital Markets Group

RASFIN

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Istituto Bancario San Paolo di Torino

Shearson Lehman Hutton International

ACCEPTANCE FORMS MUST BE LODGED AT THE BANK OF ENGLAND, NEW CHANGE, LONDON, EC4M SAA NOT LATER THAN 10.00 A.M. ON IBER 1989, OR AT ANY OF THE BRANCHES OR AGENCIES OF THE BANK OF ENGLAND NOT LATER THAN 3.30 P.M. ON

OFFER OF CONVERSION TO HOLDERS OF 92 per cent CONVERSION STOCK, 2006

TO CONVERT INTO 9 per cent TREASURY LOAN, 2008

Application will be made to the Council of The International Stock Exchange for 9 per cent Treasury Loan, 2008 issued as a result of this conversion to be admitted to the Official List.

- 1 THE GOVERNOR AND COMPANY OF THE BANK OF ENGLAND are authorised to invite holders of 92 per cent Conversion Stock, 2006 to convert all or part of their holdings into 9 per cent Treasury Loan, 2008 on 15th November 1989 at the rate of £105 nominal of 9 per cent Treasury Loan, 2008 per £100 nominal of 92 per cent Conversion Stock, 2006.
- 2 Holders who do not wish to convert any part of their holding should
- 3 Registered holders of 93 per cent Conversion Stock, 2006 at the close of business on 11th October 1989 who exercise the option to convert on 15th November 1989 will receive the interest payment due on 15th November 1989. Interest at the rate of £3.8740 per £100 normal of 9 per cent Treasury Loan, 2008 will be paid as on 13th April 1990 in respect of amounts of that Loan issued as a result of the conversion.
- 4 Conversion will be into registered stock of 9 per cent Treasury Loan, 2008 which, subject to the provisions contained in this notice, will rank equally in all respects with amounts of the Loan already Issued and will be subject to the provisions of the prospectus dated 6th February 1987. Holdings of 92 per cent Conversion Stock, 2006 in respect of which the conversion option is exercised will be surrendered free from all liens, charges and encumbrances and with all the rights now or hereafter attaching to them except the right to receive the interest payment due on 15th November 1989.

Method of acceptance

- 5 Copies of this notice and acceptance forms for completion are being sent by post to holders of 93 per cent Conversion Stock, 2006. In the sent by post to notoers or se per cent conversion stock, 2006, in the case of joint accounts, the forms are being sent to the first of the holders whose registered address is in the United Kingdom (or, if none has such an address, to the first-named holder). Holders who wish to convert all or pert of their holdings should complete the acceptance form. Stock resulting from this conversion may be added to existing holdings of 9 per cent Treasury Loan, 2008.
- 6 Completed acceptance forms with stock certificates must be lodged at the Bank of England, New Change, London, EC4M 9AA not later than 10.00 A.M. ON TUESDAY, 14TH NOVEMBER 1989, or at any of the Branches or Agencies of the Bank of England not later than 3.30 P.M. ON MONDAY, 13TH NOVEMBER 1989. The Bank of England will acknowledge receipt of acceptance forms.
- 7 If a holder wishes to convert but cannot obtain an essential signature or document by 14th November 1989, the acceptance form, completed so far as possible, should be lodged in accordance with paragraph 6 above, accompanied by a letter from a bank, solicitor or other professional adviser giving the reason for the acceptance being incomplete and adviser giving the reason for the acceptance being incompete and undertaking to put it in order as soon as possible; it may then be possible to give effect to the acceptance. If there is insufficient time for the acceptance form to be lodged before the close of the offer, the holder may notify acceptance by telex (telex number 885001; answerback 885001 BKENG) quoting brief particulars to identify the account and specifying the amount of 92 per cent Conversion Stock, 2006 to be converted; this should be followed without delay by a completed acceptance form and the certificates.

Arrangements for conversion

- 8 Up to and including 15th November 1989 holdings in respect of which the conversion option has been exercised will be known as 92 per cent Conversion Stock, 2006 "Assented"; and from 16th November 1989 until 9th March 1990 new holdings of 9 per cent Treasury Loan, 2008 issued on conversion will be known as 9 per cent Treasury Loan, 2008 "B" Certificates for the new holdings of 9 per cent Treesury Loan, 2008 "8" will be issued as soon as possible after 15th November 1989.
- 9 Transfers of 92 per cent Conversion Stock, 2006 for which stock transfer forms are lodged for registration up to 3.00 p.m. on 10th November 1989 will carry the option to convert into 9 per cent Treasury Loan, 2008 on 15th November 1989. Transfers of 91 per cent Conversion Stock, 2006 "Assented" may be lodged for registration up to 3.00 p.m. on 10th November 1989. Transfers of 92 per cent Conversion Stock, 2006 "Assented", lodged for registration or certification (see below), should be accompanied by the Bank of England's acknowledgement of the receipt of the acceptance form or, if the acknowledgement has been lodged with an earlier transfer of the Stock, by the receipt issued for that
- 10 Stock transfer forms will be accepted for certification in respect of 93 per cent Conversion Stock, 2006 and 93 per cent Conversion Stock, 2006 "Assented" until normal deadlines for certification on 10th November 1989 but they must be relodged by 3.00 p.m. that day if registration in the same form is desired. Stock transfer forms in respect of 93 per cent Conversion Stock, 2006 "Assented" lodged for certification on the 13th and 14th November 1989 will be certified in that form; on the lodging of such transfers for registration the transferees will be registered as holders of the appropriate amounts of 9 per cent Treasury Loan, 2008 "B"
- 11 The interest due on 13th April 1990 will be paid separately on holdings of the existing 9 per cent Treasury Loan, 2008 and on holdings of 9 per cent Treasury Loan, 2008 "B" at the close of business on 9th March 1990; consequently, interest mandates, authorities for income tax exemption and other notifications recorded in respect of existing holdings of 9 per cent Treasury Loan, 2008 will not be applied to the payment of interest due on 13th April 1990 on holdings of "B" stock.
- 12 Where the conversion option has been exercised, any instructions for the payment of interest registered in respect of a holding of 92 per cent Conversion Stock, 2006 will be applied to the new holding of 9 per cent Treasury Loan, 2006 "S". Similarly, where instructions have been given by the inland Revenue authorities for interest on the holding of 92 per cent Conversion Stock, 2006 to be paid without deduction of income tax, the instructions will be applied to the new holding of 9 per cent Treasury Loan, 2006 "S".

- 13 Transfers of 9 per cent Treesury Loan, 2008 "B" may be lodged at the Bank of England for registration in that form up to 7th March 1990. After that date, for purposes of certification, the "B" stock will not be distinguished from the existing 9 per cent Treasury Loan, 2008. From the opening of business on 12th March 1990, the "B" stock will be mated with 9 per cent Treasury Losn, 2008.
- 14 Her Majesty's Tressury have directed that Section 471 of the Income and Corporation Taxes Act 1988 (which relates to the treatment for taxation purposes of financial concerns whose business consists wholly or partly in dealing in securities) shall apply to exchanges of securities arising from this offer.

Particulars of the issue of 9 per cent Treasury Loan, 2008

15 The prospectus for 9 per cent Treasury Loan, 2008 dated 6th February 1987 included the following provisions:—

- The Loan is an investment falling within Part II of the First Schedule to the Trustee Investments Act 1961, subject as regards securities payable to begrer to the provisions of Section 7 of the Trustee Act 1925. The principal of and interest on the Loan is a charge on the National Loans Fund, with recourse to the Consolidated Fund of the United Kingdom.
- The Loan will be repaid at par on 13th October 2008.
- The Loan is issued in the form of stock which is registered at the Bank of England or at the Bank of Ireland, Belfast, and is transferable, in multiples of one penny, by instrument in writing in accordance with the Stock Transfer Act 1963. Stock registered at the Bank of England held for the account of members of the Central Gilts Office Service is also transferable, in multiples of one penny, by exempt transfer in accordance with the Stock Transfer Act 1982 and the levant subordinate legislation. Transfers are free of stamp duty.
- Interest is payable half-yearly on 13th April and 13th October. Income tax is deducted from payments of more than £5 per annum. Interest payments are transmitted by post.
- Stock may be exchanged into bonds to bearer which are svaliable in denominations of £100, £200, £500, £1,000, £6,000, £10,000 and £50,000. Bonds are free of stamp duty. Stock is interchangeable with bonds without payment of any fee. Interest on bonds to bearer, less income tax, is paid by coupon.
- Stock and bonds of this issue and the interest payable thereon is exempt from all United Kingdom taxation, present or future, so long as it is shown that the stock or bonds are in the beneficial ownership of persons who are neither domiciled nor ordinarily resident in the nited Kingdom of Great Britain and Northern Ireland.
- Further, the interest payable on stock or bonds of this issue is exempt from United Kingdom income tax, present or future, so long as it is shown that the stock or bonds are in the beneficial ownership of persons who are not ordinarily resident in the United Kingdom of Great Britain and Northern Ireland.
- For the purposes of the preceding paragraphs, persons are not ordinarily resident in the United Kingdom if they are regarded as not ordinarily resident for the purposes of United Kingdom Income tax. Applications for exemption from United Kingdom income tax should, in the case of interest on stock, be made in such form as may be required by the Commissioners of Inland Revenue. Bears bond coupons are paid without deduction of United Kingdom income tax if accompanied by a declaration of ownership in such form as may be required by the Commissioners of Inland Revenue. The appropriate forms may be obtained from the Inspector of Foreign Dividends, Inland Revenue, Lynwood Road, Thames Ditton,
- These exemptions do not entitle a person to claim repayment of tex deducted from interest unless the claim to such repayment is made within the time limit provided for such claims under income tax law; under the provisions of the Taxes Management Act 1970, Section 43(1), no such claim will be outside this time firth if it is made within six years from the date on which the interest is payable. In addition, these exemptions do not apply so as to exclude the interest from any computation for taxation purposes of the profits of any trade or business carried on in the United Kingdom. Moreover, the allowance of the exemptions is subject to the provisions of any law, present or future, of the United Kingdom directed to preventing avoidance of taxation by persons domicited, resident or ordinarity resident in the United Kingdom, and, in particular, the Interest is not empt from income tax where, under any such provision, it falls to be treated for the purpose of the Income Tax Acts as income of any person resident or ordinarily resident in the United Kingdom.

Additional copies of this notice, the particulars of 9 per cent Treasury Loan, 2008 and forms for the acceptance of the conversion offer may be obtained at the New Issues Counter, Bank of England, New Change, London, ECAN SAA; at the Central Gilts Office, Bank of England, 1 Bank Buildings, Princes Street, London, EC2R SEU, or at any of the Brai Agencies of the Bank of England; at the Bank of Iteland, Moyne Buildings, 1st Floor, 20 Cellender Street, Belfast, BT1 5BN; or at any office of The ternational Stock Exchange in the United Kingdom.

Members of the Central Gifts Office Service may obtain further guidance about the arrangements set out above in relation to their accounts by contacting the Central Gitts Office, Bank of England.

STOCKHOLDERS UNCERTAIN AS TO THE BEST COURSE TO FOLLOW

SOLICITOR; ACCOUNTANT OR OTHER PROFESSIONAL ADVISER....

ention is drawn to the statement issued by Her Majesty's Treasury on 29th May 1985 which explained that, in the interest of the orderly conduct of fiscal policy, neither Her Majesty's Government nor the Bank of England or their respective servents or agents undertake to disclose tax chan decided on but not yet announced, even where they may specifically affect the terms on which, or the conditions under which, the further amount of 9 per cent Treasury Loan, 2008 is issued or sold by or on behalf of the Government or Bank; that no responsibility can therefore be accepted for any omission to make such disclosure; and that such omiss render any transaction liable to be sat aside nor give rise to any claim for

BANK OF ENGLAND

20th October 1989

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exclusive health club called The Peak. It's equipped with saunas, steam,

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> your stamina. We call it the Hyatt

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CANADA

The Financial Times proposes to publish this survey

7th November 1989

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FINANCIAL TIMES

NY 10022

APPOINTMENTS

GrandMet management moves

NEW FINANCE directors have been appointed at two of Britain's most aggresive companies unites Lisa Wood.

Mr David Nash, finance director of CADBURY SCHWEPPES, the soft drinks and confectionery group, is joining GRAND METROPOLITAN, the drinks and retailing group, to take

up the same post there. He will replace Mr Clive Strowger, who combined his post of finance director with responsibility for retailing and property. Mr Strowger, who earlier this year publicly stated that he intended to leave his post, will leave GrandMet next

spring.

Mr Nash will be replaced at Cadbury Schweipes by Mr Neville Bain, who, as nanaging director of Cadbury's confectionery division, has over the past three years been responsible for several new confectionery acquisitions in Cadbury which is now concentrating on confectionery and soft drinks. Mr Nash has been finance director at Cadbury Schweppes

■ Mr Robert Gardner has been appointed property director for the Channel Tunnel project on BRITISH RAIL's property .

■ SWISS CANTOBANK (INTERNATIONAL), London branch, has appointed Mr R.E. Staehli as general manager, bond and equity trading arm



Mr Michael Reynolds (above) has been appointed board member for procurement in National Power - Thermal. a CEGB division. He was divisional contracts manager. generation development and construction division.



tor, and Mr David Simon (right) non-executive director. director will include groupwide during one of the most active functional responsibility for accounting and financial

periods of the group's development and profits growth. Cadbury said: "David Nash has made a substantial contribution to the growth and development of the business over the past 21/2 years and his board colleagues wish him well in his new role." At Grand Metropolitan his job as dedicated finance

Swiss Cantobank Securities. Mr S.P. Cossins becomes deputy general manager and senior manager-operations, and company secretary of the bond trading arm. Mr Staebli and Mr Cossins join from BSI - Banca della Svizzera Italiana. Mr I.E. Elstein is made senior manager - commercial banking. He was capital markets director, ANZ McLaughan.

- Mr Andrew Peters has been appointed managing director of INTEGRAL TECHNOLOGY, a Third Wave Group company. He was a director of SD-Scicon.
- Sir John Milne, chahman of Blue Circle Industries, and of DRG, is joining the board of AVON RUBBER as a non-executive director on
- Mr John Ellis has been of CROWN UNIT TRUST SERVICES, a wholly-owned subsidiary of Crown Financial
- Mr Keith Jecks has been appointed business dvelopment director of KLEINWORT BENSON INVESTMENT MANAGEMENT. He was a director of Lloyds Investment Management, and Lloyds :



Mr David Nash (left) GrandMet's new group finance direc-

control, treasury, tax, systems and investor relations. Mr David Simon, deputy

chairman elect and chief financial officer at BP is will become a non-executive director of the brewing and retailing group from November

Merchant Bank, Mr Peter Bebb joins from James Martin ssociates as business systems director. Mr Kenneth King becomes director, international equity research and portfolio anagement. He was an executive director at Rothschild Asset Management

- DAWSON KEITH, Havant, part of the Associated British Engineering Group, has appointed Dr Max Wilson as managing director. He was customer services director. Chloride Power Electronics.
- m Mr Malcolm Hatch has been appointed executive sales director of BURLINGTON SLATE, Kirkby-in-Furness He was group export sales
- E Mr John Crozier, a director of Rex Stewart Group, and chairman and chief executive of the Riley Group of human resources companies, has joined the board of LOPEX which recently acquired the Rex Stewart Group.
- VICTORIA PALACE, which owns the freehold of the Victoria Palace Theatre, has appointed Mr Stephen Waley-Cohen as managing director. He was joint chief executive, Maybox Group.

Senior posts at ICI Fibres

Mr David Thackwray bas succeeded Mr Hugh Corran as sales and marketing manager for ICI FIRRES hosiery and knitting businesses, Harrogate. Mr Corran is to develop Fibres' international sales and marketing structure in Europe and overseas for the 1990s. Mr Thackwray was head of ICI (UK) Fibres, where he is succeeded by Mr Tony Piliar, who was responsible for carpet and technical products fibres.

Mr Jean Pierre Landre and Mr Michael Stoddard have been appointed directors of nu-swift international

Mr Keith Hatter has been appointed managing director of PRIVATE ACCESS STORAGE, Newbury, Berks. He was responsible for property acquisition and

COOPERS & LYBRAND, Birmingham, has appointed Mr Jonathan Lander as audit and investigation partner, and Mr Kelvin Hard as director of organisation and human

Mr Dennis R. Twist, commercial director, engineering and construction sector, John Brown, has been elected chairman of council, BRITISH CHEMICAL engineering CONTRACTORS ASSOCIATION.

MORGAN GRENFELL bas appointed Mr Guy Dawson and Mr John Rawlings as deputy chairmen of Morgan Grenfell & Co.

mr C.R. Millington has been appointed divisional director on the main board of JCT600. He was managing director of Bramall's Ford Dealers.

Mr J.C.S. Mott, who was chairman of May Gurney Holdings up to the recent nent buy-out, has been appointed a non-executive director of MAY GURNEY GROUP, Norwich.

■ We have been asked to point out that Mr Peter Whitham HILL SAMUEL BANK until a date to be decided, when Mr Philip Guy, who joins the bank on November 1, will take over.



Solvay Finance (Bermuda) Ltd

USD 100.000.000

Multi Option Currency Facility (MOF)

Arrangers

Deutsche Bank AG, Succursale de Bruxelles Generale Bank, Brussels

Co-Lead Managers

Deutsche Bank AG, Succursale de Bruxelles Generale Bank, Brussels International Westminster Bank PLC, Brussels Office

Managers

Banque Nationale de Paris Barclays Bank PLC Société Générale

Co-Managers

Banque Générale du Luxembourg S.A. Kredietbank N.V.

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CONTRACTS & TENDERS

INVITATION TO TENDER Issued by the Guyana Sugar Corporation Limited For a project to be financed By The Inter-American Development Bank

Loan Contact No. 154/1C- GY Supply of spares for Sugar Factory Equipment Supply OI Spares 107 Singar Pactory Equipment of Tenders are hereby invited from suppliers for the provision of factory spares to be acquired under an industrial Reactivation Loan Programme the inter American Development Bank (IDB) is partially funding this rehabilitation programme through LO - ISA/IC GY eligibility with respect to origin of goods as and service will be determine pursuant to the rules applicable for the use of the fand.

Tenders are invited from firms which are from regional or non-regional MEMBER countries of the IADB for the supply of the following spares which are dividend into two groups indicated in the corresponding documents.

Contracts would be let following international competitive hidding by The Guyans Sogar Corporation Limited through the Central Sourd Committee of Ministry of France
Fractory Spares

Group A Mills

or posts

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3. 42.25

FACTORY SPARES
Group A Mills
Group B Diesels
Specifications contained in the tender document pannit offers of spares which have
similar characteristics and provide equal performance and quality to those stated
Tender documents can be obtained from the office of C Carnikow her S wall
Street New York NY 10005. United States of America or the Guyana Sugar
Corporation Limited to the appropriate address below against a non reimbursable
payment of 500 Guyana dollars or equivalent in foreign exchange by crossed chaque
in favour of the Guyana Sugar Corporation Limited.
The tenderer shall foreign as part of his tender a tender bond in favour of the
Chairman Guyana Sugar Corporation Limited
In the value of 5 percentage of the CIF tender prior
Tenders shall be in English submitted in duplicate and delivered in plainsealed
envelopes which in no way identify the tender to the chairman of the central tender
board contrainted at the appropriate address below
Tenders close at 14.00 hours local time on the 14th of December 1989.

The Chairman Central Tender Board Committee Rehabilisation Sugar Programme Industrial Rescrivation Loan Programme

Mr E O S Hanomin

22 Church Street

YACHTS & POWERCRAFT

Judicial Sale

On Wednesday, November 15, 1989 at 14.00 hours the twin-screw motor yacht under number 711552 in the Register of Ships at Southampton, United Kingdom, "Extases A", - hereafter "the Yacht" -, will be sold by enforced sale in a session of the District Court at Bois-le-Duc, The Netherlands, Beurdsestraat 30.

The sale will take place at the request of the company organized and existing under the laws of the United Kingdom PKFimus International (UK) Limited of London, United Kingdom, hereafter "the Bank", in this matter having chosen domicile at Rotterdam, The Netherlands, Black 333, at the offices of Loeff & van der Ploeg, advocates and notarios public, as well as at Oss, The Netherlands, Raadhuislaan 2, at the office of the town clerk and at Bois-le-Duc, The Netherlands, Sint Jorisstram 14, at the office of van Leruwen & Van der Eerden, attorneys, of which firm Mr. W.M.C. van der Eerden, I.I.M., has been appointed attorney to pursue the judicial sale of the Yacht in the above-mentioned session.

The sale will take place for account of the owner of the Yacht the company organized and existing under the laws of the Channel Islands Mercury Crassing Limited of St. Peter Port, Guerusey, Channel Islands, and having office there at Frances House, Sir William Place.

The sale will take place by virtue of the engressment of a judgement dated September 30, 1989 of the District Court at Bois-le-Duc, The Netherlands rendered under number 3358/88. The above-mentioned engrossment and decree were served upon the above-mentioned owner on October 7, 1988, with the order to pay the sum amounting of f 5,209,549.59 for principal and f 193,978.31 for interest, without prejudice to interest and costs otherwise due.

Technical data of the Yacht: motor yacht, built at Os. The Netherlands, at the yard of Hessen Shipyards B.V. in 1987, length 31.52m, breadth 7.50m, moulded depth 3.25m, maximum draught 2.76m, gross Tonnage 236 tons, net tonnage 71 tons, propulsion two 16-cylinder engines, bore 142mm, stroke 160mm, with a capacity of 1932 kw, built by Klöckner-Humboldt-Deutz AG at Köto, Federal Republic of Germany.

The Yacht will be sold "as is where is". The Yacht which was a before judgement on Angust 19, 1968, by R.J.M. van der Vies, process-server with the District Court and the Cantonal at Bois-le-Duc, The Netherlands is presently lying at Oss, The Netherlands, at the yard of Heeser Shipyards B.V., Inspection of the Yacht can only take place after prior permission of the advocates of the Bank.

Heesen exercises with respect to certain claims a lien on the Yacht.

At the request of the Public Prosecutor, the Examining Judge, entrusted with the handling of criminal cases in the District Court at Bois-le-Duc, arrested the Yacht on the 9th November 1988 by virtue of articles 552 h et seq. of the Dutch Code of Criminal Procedure, after the authorities h et seq. of the Dutch Code of Criminal Procedure, after the authorities of the United States of America has requested same to the Ministry of Justice at The Hagne, The Netherlands. The arrest was upheld by decision dated 5th April 1989 (reference 320/83) of the District Court at Bois-le-Duc, in which decision the Examining Judge was granted leave to put the Yacht at the disposal of the Public Prosecutor on condition that on the surrender of the Yacht to the authorities of the United States of America it is agreed that the Yacht shall be returned as soon essary use has been made thereof in the criminal proceedings.

With respect to the lien as well as the criminal arrest of the Yacht and further criminal actions as referred to above, the Bank refers to Article 4 of the Sales Conditions. These Sales Conditions have been filed at the office of the clerk of the District Court at Bois-le-Duc, The

The Yacht will be sold to the highest bidder in the Dutch anction. Bidding at the auction can only take place by advocates or notaries public admitted in the district of Bois-le-Duc, The Netherlands. The upset-price of the Bank on the Yacht with appurtenances amounts

The attorney of the Bank.

Further information will be given by Mr. R.P.M. van Leeuwen, L.L.M., of Loeff & van der Ploeg, advocates and notaties public, Rhank 333 or P.O. Box 21022, 3011 GB respectively 3011 AA Rotterdam, The Netherlands, tel.:10-4147555,telex: 23395 (lex nl).

LEGAL NOTICES

TRANSFINANCE LIMITED TRANSURANCE LIMITED

5 park Street, Leanington Spa, NOTICE IS HEREBY CIVEN, pursu-ant to Section 98 of the insolvency Act

ant to Section 98 of the Instrumency And 1986, that a Meeting of the above camed Companies will be held at 141 Orest Charles Street, Birmingham, B3

Creditors should forward a Statement of their claim by 12 acos on Monday the 30th day of October 1989 to Henry Edward Hayes Licenteed Insolvency Practitioner, of 142 Great Charles Strott, Birmingham, 83 3LG, who well, free of charge supply to those Creditors whose claims have been lodged in writing by the posseribed time on that day with such sefemation conserving the Company's affairs as they may reasonably require.

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AND E

ting of Creditors pursuant to Se DENNY'S JOHLERY & STAIRS LIMITED

NOTICE IS HEREBY GIVEN, pursuant to Section 98 of the Inschency Act 1986, that a Meeting of the above memod Company will be beed at Birmingham and Midsand Institute, 9 Margaret Street, Birmingham, 83 SLG on Thursday the 2nd day of November 1989 at 1,00am for the purposes mentioned in Sections 98, 100 and 101 of the said Act.

Creditors should turnent a Statement of their came by 12 noon on Wadnesday the 1st day of November 1989 to Heavy Edward Hayes Licenced Insolvency Practitioner, of 141 Grant Charles Breet, Birmingham, 63 3LG who will, free of charge, supply to those Creditors whose cistms have been todged in writing by the practiced time on that day with such information concerning the Consense.

Dated this 13th day of October 1959

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LEGAL COLUMN

Government faces problem over corporate law

By Philip Goldenberg

THE Government's attempt to reform the law of corporate ultra vires, to prevent companies acting outside their powers, is likely to be frustrated by its drafting of key provisions in the Companies Bill, which is being con-

sidered at report stage in the Commons this week.

The problem arises because of the interaction of two provisions of the Bill, relating to the objects of a common way as not to be a common when the common way as not to be a common way as not to be a common way. pany as set out in its memorandum of

A company's memorandum of association is a long, boring and, normally, unread document. A company is a creature of statute and only exists for the objects set out in its memorandum. dum. For this reason, and because of a body of case law, lawyers have drafted ever longer and more complex objects clauses to ensure a company's capacity to undertake any particular

transaction cannot be impugned.
Although every paragraph in an objects clause is expressed to be a there is a conceptual division between "objects" and "powers." Accordingly, objects clauses will set out in two or three paragraphs the principal (genuine) objects of the company contain a ine) objects of the company; contain a further paragraph giving it an object of doing anything that is ancillary or conductive to those principal objects; and then go on to set out a range of powers to cover every conceivable transaction into which it might wish

The existing law is set out in Section 35 of the Companies Act 1985 which provides: "In favour of a person dealing with a company in good faith, any transaction decided on by the

directors is deemed to be one which noise within the capacity of the company to enter into, and the power of the directors to bind the company is deemed to be free of any limitation under the memorandum or articles."

It has long been recognised that there are a number of difficulties with the operation of this section. The fundirectors is deemed to be one which it

the operation of this section. The fun-damental difficulty is that the "good faith" test has been interpreted by the courts as meaning that mere know-ledge by a third party of any limitations deriving from the constitution on the authority of the directors to bind a company will remove the pro-tection intended to be conferred.

The Government is undoubtedly

right to alter this and it was the recommendation of Dr Dan Prentice of Oxford University who was commissioned by the Department of Trade and Industry in 1985 to advise on the implications of abolishing the ultra vires rule.

The Government proposes to substitute for the existing Section 35 a new provision. The key paragraph of this provision is: "The validity of an act done by a company shall not be called into question on the ground of lack of capacity by reason of the fact that it is beyond the objects of the company stated in the memorandum of associa-

The word "objects" is the crucial one to note. It is crucial because the Companies Bill goes on to provide for a substituted Section 4 in the Companies Act 1985. The principal provision of this Act is: "A statement that the object of the company is to carry on business as a general commercial company means that the object of the

company is to carry on any trade or business whatsoever, and in such a case the company has power to do all such things as are incidental or conducive to the carrying on of any trade

or business by it."
The intended effect of the latter provision is that lawyers can put away their word processors and com-panies can have one-sentence objects clauses. This effect is achieved as regards "objects" in the genuine sense of the term but it does not achieve its intention so far as "powers" are concerned.

The solution is to provide that a general company has the power to do anything subject to express limitations in its memorandum

This is because, in the second part of the substituted Section 4(2), the "powers" conferred on a company which state that its object is to carry on business as a general commercial company, are limited to such things as are "incidental or conducive to the carrying on of any trade or business

It must be uncertain what exact powers are thereby conferred. For example:

 A general commercial company will clearly be able to sell assets out of its trading stock as part of its day-to-day business. Suppose, how-ever, that it wishes to sell a large

property interest, which may no longer be relevant to its business activi-ties, or to sell the whole or a main part of its undertaking and assets –
perhaps to effect a merger or because
it is part of a group of companies and
a strategic decision has been taken to discontinue that business.

Is the power to do so "incidental or conducive to the carrying on of any trade or business"? Hardly, and a solicitor acting for the purchaser would be unwise to rely on the propo-

 As a corollary of its power of sale, a general commercial company can clearly buy assets, for example as part of the manufacturing chain or prop-erty in which to conduct its business. erty in which to conduct its business. However, suppose it wants to diversify, by acquiring either a different business or a company carrying on a different business. Is that "incidental or conducive to the carrying on of any trade or business by it"?

trade or business by it"?
The answer is uncertain, as it is not clear whether the phrase refers to an existing business. A vendor who was taking a cash consideration might take a chance but a vendor receiving shares would almost certainly not rely on a marginal construction of the statute.

 A general commercial company would clearly have power, say, to guarantee the obligations of one of its suppliers to that suppliers's bank if it felt that thereby it was securing a source of supply which was commercially necessary.

By contrast, take the normal situation of a group of companies where the group's principal bankers require that each company in the group gives

an unlimited multilateral guarantee - particularly where the group's treasury function is totally integrated. In other words, the group guarantees the bank borrowings of every other company in the group. Is that "incidental or conducive to carrying on its trade

or business"? Probably not.

• A group's banker which takes security for the group's bank borrowings will normally require not only a charge from the parent company over all its assets but from all subsidiaries. Is the giving of that charge "incidental or conductve" to the business of such whiching Almost containly not each subsidiary? Almost certainly not - and in any event no bank is going to take the risk.

The Government encourages charitable giving and companies now have a simplified procedure to make tax-efficient charitable donations. Is a charitable donations. itable donation "incidental or conducive" to carrying on a business? Probably not, unless the charity relates in some way to the company

or its activities. The solution, if the Government is to achieve its objective of eliminating unnecessary legal verbiage from com-panies' memoranda of association, is to alter the substituted section 4(2) to provide that a general commercial company has the power to do any act whatever, subject to any express limi-tations on its powers contained in its memorandum of association.

It is to be hoped that the Government will accept this concept when an appropriate amendment is moved at

philip Goldenberg is a corporate finance partner in City solicitors S.J. Berwin & Co.

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Swiss Lawyer, phd, 42

trilingual, German, French, English, vast experience in Swiss and international business and financial law, management and team work skills. Seeks post as legal counsel corporate administrator with Bank or Industry in US or France, Geneva, Lausanne.

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0ct.20	Day's spread	Clore	One month	% p.	Three months	% p.t
S	1.5845 - 1.5990	1.5880 - 1.5890	0.86-0 84cpm	6.42	2.47-2.44pm	6.3
anada	1.8600 - 1.8740	1.8630 - 1.8640	0.48-0.40cm	283 7.34 5.34 4.07 7.39 1.57 9.22 4.17 3.30 8.30 6.30 7.84	1,34-1,2300	27
etheriands .	3.31 - 3.33	332-333	24-1%com	7.22	5½-5½pm	51 21 31 61
elgiom	61.65-62.05	61.80 - 61.90	10-20m	5.34	84-77pm	5.2
enerark	11434 - 1131	11.50-11.51	15-14grepes	143	6%-64000	22
Link	1.1010 - 1.1095	1.1050 - 1.1060	0.40-0.3500	407	1.10-1.00om	3.8
. Ge many	2.931 - 2.951	2944 - 2944	12.11.00	7 79	54-4400	6.7
	2724 - 2.924		13-11 pripes 43-23cpm	1747	17.6406	-0.5
ortugal	250.40 - 253.00	252.00 · 253.00	20-11com	1 865	42-39mi	0.8
main	186 80 - 188 60	187.70 - 188 <u>.0</u> 0		V.77	13-11am	23
aly	21614 - 21725	21664 - 21674	5-3l/mmm	- 444	104-95pm	3.5
OF WEST	10.974 - 11.02	11.004 - 11.014	4-35-orepm	3 to 1		4.7
7000	9.98 - 10.01 %	10.004 - 10 014	46-44CM	577.1	124 11 196	29
veden	10.21 - 10.25%	10.23 - 10.24	23-25orm	3.22	73-74 pm	
P20	225 - 226 5	2254 - 2264	14-14ypm	8.30	44-44-00	8.5
stria	20.65 - 20.77	20.71 - 20.74	125-11599年	6.80]	33 4 30 4 pm	6.8
ritzerland .	2574 - 260	2574 - 2584	14-15-000	7.84	45 ₂ -41 ₂ pm	7,0
DJ	1,4350 - 1,4410	14350 - 14360	0.57-0.54cm	4.64	164-1.59pm	45

MONEY MARKETS

Bank squeezes the sterling speculator

MONEY MARKETS were heavily influenced by volatility in equity trading last week, but the UK authorities took a much more cautious view than during the October 1987 share crash. At that time liquidity was pumped into the banking system and interest rates fell sharply.

Equity markets rallied last week, but it was quite clear that even if this had not been

the case there would have been no similar credit easing opera-tion. The situation on share prices may have made a rise to 16 per cent in bank base rates less likely, but it has not brought a cut any nearer.

The Federal Reserve took a similarly circumspect view in its operations on the New York money market. The Fed made sure the banking system had enough liquidity to restore

£ IN NEW YORK

STERLING INDEX

CURRENCY RATES

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89.5 89.4 89.4 89.4 89.5 89.5 89.5

1.25216 1.28194 1.50513 16.6191 49.5630 9.19151 2.35980 2.66299 8.00692 1737.83 181.330 8.84282 150.525 8.22557 2.06328 211.136 0.887406

sted in terms of SDR and ECU per £.
rumisssion Calculations.
s are for Oct.19

14.4595 43.1602 8.00304 2.05341 2.31872 6.97550 1511.06 157.308 7.46089 130.965 7.12474 1.77915 183.773 0.771221

20 _____ 20 ____

calm to the financial markets, but action to drain funds on Thursday appeared to indicate

Thursday appeared to indicate that a further easing of credit policy was not imminent.

As calm returned to equity trading, the Bank of England continued to pursue its restrictive policy as far as the very short end of the London money market is concerned. Overnight money howeved among night money hovered around the 15 per cent base rate level, as the UK authorities tended to provide insufficient assistance to take out day-to-day credit shortages. Keeping the short end of the market tight makes

end of the market tight makes it expensive for speculators to run short positions against sterling on borrowed money.

Tomorrow's figures on the UK currency account for September may determine how tight the authorities need to been the market this week but keep the market this week, but if the deficit is much larger than the widely forecast £1.6bn the credit situation will not

CURR	ENCY	MO	VΕ	ME	NTS						
8a.	20	Bank o Englan Index	9	Mor Gran	ges % ges %						
Sterling U.S. Dollar Canadian Ool Austrian Schi Belgian Franc Doubsk Krone Doubsk Krone Doubsk Krone Doubsk Krone Doubsk Krone Doubsk Krone Doubsk Franc Guilder Franc Lisa Veo Morgan 1982 = 1001	lar	Empland 1	S 23	+ + + + + + + + + + + + + + + + + + + +	21.4 -8.4 +1.5 10.7 -5.3 0.2 22.2 16.0 14.4 14.3 19.5 1980- Amrage						
OTHER CURRENCIES											
0ct_20	£		T	5							
Argentina Australia Brazil Brazil Brazil Finland Greece Hoog Koreg Hoog Kored Horad Horad Linembourg Menion H. Zestand Sandi Ar. Singanore S. Al (Cm) Taineau U.A.E. U.A.E.	1032 20 2.0555 7.1585 6.7570 260.85 12.3985 1042.85 0.4757 61.80 4.2730 4144.95 2.6940 5.9945 4.2045 6.1690 4.275 5.8715	20580 7.2090 6.7709 6.7709 2255.35 12.4110 1079.95 0.47750 61.90 4.2835 41627 2.7005 2.7005 2.7005 3.1175 4.2175 4	1.2 4.5 4.2 163 7.1 668 0.29 3.7 1.6 2.6 1.6 3.7 1.9 2.6 3.8 3.8 2.6	940 - 1 080 - 4 590 - 4 1,85 - 7 20° 1,70 - 6 750 - 0 1,90 - 2 1,00 - 2 1,00 - 2	1.6920 1620.00 1.7000 1.7510 1.9590 1.9605 5.70						
POUND-S CE			_								
			_								
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High Low 1.5764 1.56% 1.5534 1.5460 - 1.5250

WEST GERMANY
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30TH OCTOBER 1989
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FINANCIAL TIMES

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SP	ONSORED	SE	CUR	LIT	IE S	3
Capitalisatio	•		Change	Gross	Yield	
£000°s	Company	Price	on week	div (p)	%	P/E
7958	Ass, Brit, Ind. Ord	335	-7	10.3	3.1	9.0
725	Armitage and Rhodes	29	-1			
111794		163	-12	4.3	2.6	15.9
18150	Bardon Group Cv. Pref. (SE)	104xd	-6	6.7	6.4	-
4839	Bray Technologies	80	-5	5.9	7.4	7.1
1	Breakill Conv Pref	105	0.	11.0	10.5	-
1	Breakii 84 New C.C.R.P	104	0	11.0	10.6	-
1094	CCL Group Ordinary	288	0	14.7	51	3.6
2125	CGL Group 11% Cour Pref	170	0	14.7	8.6	-
16740	Carbo Pic (SE)	210	-20	7.6	3.6	<u>12.4</u>
770	Carbo 7.5% Pref (SE)	110	G	10.3	9.4	-
-	Magnet Gp Non Yoting A Cov*	1.5	-1.25	-	-	-
-	Magnet Gp Non Voting & Cov*		-0.25	- -	-	-
9956	Isis Group	125	-3	8.0	6.4	7.1
24048	Jackson Group (SE)	112	-4	3.6	3.2	13.0
23003	Multihouse N.V.(AnestSE)	295	-25	-	-	-
1591	Robert Jenkles	1 56	-2	10.0	8.4	5.7
18000	Scryttoes	375m)	-2	18.7	4.0	10.0
9242	Torday & Carliste	299	-1	9.3	31	10.4
l .	Torday & Carlisle Conv Pref	110	0	10.7	9.7	•
3700	Trevian Holdings (USM)	86	-11	2.7	3.2	9.2
-	Unistrat Europe Conv Pref	150zd	0	9.3	6.2	-
6023	Veterinary Drug Co. Ltd .,	365	-12	22.0	6.0	9.4
7325	W. S. Yeals	327	-4	16.2	5.0	27.3
Securities :	designated (SE) and (USM) are deal	it in suble	st to the rule	s and ren	riations o	af .
The ISE (other securities listed above are deal	n la suble	ct to the rule	s of TSA		-
There core	rities are dealt in strictly on a mate	ched bare	ein basis. Nei	ther Gram	ille & C	O.
Limited 66	y Crannillo Davies Limited are mar	fær, maker	s in these sec	erities.		
6 There to	curities are dealt on a restricted ba	sks. Fortbe	r details avai	lable		
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Gill-	& Co. Limited		Gran	ville Dav	ies Lim	ited
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0dL20	Τ	Day's Spread	Т	Clase	o	mant	, %		itree onties	76 P.E.	
UK† reland† lethe land letherland letherland V. German Portigal Sarway France	1.43 1.17 2.07 7.17 1.83 1.13 1.13 1.13 1.13 1.13 1.13 1.13	586 - 15990 4325 - 14450 0780 - 21030 865 - 39.15 1374 - 7254 1395 - 18630 805 - 15860 750 - 11860 1355 - 1369 884 - 6.45 405 - 6.45 405 - 6.45 405 - 6.45 405 - 6.45		1.4570 - 1.4380 0 1.1735 - 1.1745 0 2.0925 - 2.0925 3.90 - 39.00 7.24 - 7.24) 0 1.8535 - 1.8545 0 18.35 - 1.8545 0 118.35 - 118.45 13634 - 13644 6.93 - 6.935		0.86-0.84 gpm 0.28-0.24 gpm 0.34-0.37 afgs 0.12-0.10 gpm 2.50-4.50 cds 2.10-2.50 resids 0.14-0.12 afgs 60-70 cds 4.70-5.20 linetis 1.30-1.55 crafts 0.82-0.67 cds 1.50-1.80 resids		1 52: 4 02: 8 15: 7 15: 5 13:00	7-2.44gm 3-0.83gm 0-1.04ds 7-0.23gm 10.50ds 5-5.70ds 7-0.24gm 5-165ds 5-165ds 14.00ds 5-4.85ds 5-2.25ds	30 02 54 54 -26	
iapan lapan lustria leitzerland ECU	. 12.95	5 - 142 9 1 - 13.08 10 - 1.630 50 - 1.108	k 13.0	.44 - 6.441 30 - 142.4 55 - 1.625 170 - 1.108	0 03 0.65 5 01	2 0.30y 0.15gra 8 0.15g 7-0.16g	MR 26 MR 0.3 MR 1.2	0.86 1.30ga 2 0.39	-5.20ds -0.83pm -0.20ds -0.35pm -0.45pm	3.1; 2.3 0.1; 0.9; 1.6;	
Commercial rates taken towards the end of London trading, I UK and Ireland are quoted in US corrency. Forward prevalents and discounts apply to the US dollar and not to the individual correctly. Belgian rate is for convertible frames. Financial frame 99.06-39.15.											
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DM YEN	0.340 4.425	0.540 7.031	13.03	76.74 1000.	3.399 44.29	11.43	14.71	735.8 9568	0.633 8.248	21.00 273.7	
F Fr. \$ Fr.	0.999 0.387	1.587 0.615	2962 1140	225.8 87.50	10. 3,875	2580	1.287	21.65 838.9	1.862 0.722	61,79 23,95	
H FL Lifa	0.30I 0.461	0.478 0.733	0.886 1.359	67.97 104.3	3.011 4.619	11%	1.534	651.7 1000.	0.561 0.860	18.60 28.54	
C S B Fr.	0.536 1.617	0.852 2.569	1.580 4.762	121.2 365.4	5.370 16.18	1.386 4.176	1.784 5.376	1163 3504	1 3.014	33.18 100.	
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0cL20	Overnight.	Coe Month	Two Months	Three Months	Şix Musths	Lombard Interestion						
Frankfurt	7.85-7.95 913-913	7,95-810 94-10	7.90-8.05 97-10	8.00-8.15 981-10%	7.95-8.15 93-104	8.00 9.50						
Zurich	913-913 7.75-7.87	97 10 805 8 12		99-101 71-71 8,05-8,12		:						
Tokyo	61-61 121-12	12,3		经班	- 1	<u> </u>						
Brussels	7.65	104-103		73-73		-						
Dabila	105-103	704-70%	10%-11%	114-114	114-115							
LONDON MONEY RATES												
0ct 20	Overalght	7 days notice	One . Month	Three Months	Six Months	Year One						
Interbank Offer	16	15	154	154	141	145						
Interbank Bld Sterling CDs	144	14%	毙	慢	141 141 141 144	145 146 145						
Local Authority Deps Local Authority Bonds	15	15 147		15	144	1412						
Discount Mict Dees	16	14%	143		142	148						
Company Deposits Finance House Deposit	š -	=	155	135	142	145						
Treasury Bills (Boy) Bank Bills (Boy)	::} =	16 14% 14% 14% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15		機	132	} =·						
Fine Trade Bills (Buy)	-1 -	-	15% 8.62	1 860	135 143 8.45	8.43						
Challeton Affra	7 <u> </u>	} =	85 87	83	184	81 ₄						
SDR Linked Dep. Bid ECU Linked Dep. Offer ECU Linked Dep. Bid	: <u>-</u>	1 =	10%	83 83 102 104	81 ₂ 101 ₄	814 812 103 103						
		<u> </u>										
Treasury Bills (sel one-mouth 14% per c discount 14.4398 p.c. 1989. Agreed rates to Schemes II & III: 15.20 (1989: 14.018 p.c. Lifixed. Finance Houses days notice 4 per centureler one mouth 10: six-oine mouths 12 per May 25,1989, Depos	D; one-monti	h 1473 per ce	nt; three me	entis 143 p	er cent; Ban · Average to	k Bilis (seli): orier rate of						
discount 14.4398 p.c.	ECGD Fixed	Rate Sterlin	g Export F	pance Mak	e up day Se	stember 29 ,						
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six-nine months 12 per	cent; nine-tv	velve months	12 per cent	Under £10	0,000 1012	per cent from						
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	0a.2	_ 1			00,2	0ct13						
Bills on offer	£1262	R £500m # £955#	Top accepted Average rate of	rate of discount	14.459	%14.6201%						
Total allocated		ma £500m	Average yield		14.9791	%14.5687% %15.1178%						
Mickenson accepted bid Allotoment at minimum leve	596.34 1 82%		Miniment Sca Miniment Sca	er at next tend epter bid 182 o	er £500m Lays £93.13	1 £500m 0 £92,890						
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7 day interbank	1 16 1	-4	Federal Fi	ods	, NA	-0.16						
3-month Interbank	154 144398 144 144	0.1299	6 MUL, Tr	esery Bills Esery Bills	7/3 7/3 7/32	4.43						
Band 2 Bills	144	Vectr'd Linck'd	FRANKFUR		8.62	-0.05						
Band 3 8Hs Band 4 Bills	1 : I	:	Lombard .	·	8.00	Undrd						
3 Mith. Treasury Billi	148 141 145	-12 -1	One meth. 1 Three mon		8.025 8.075	+0.050 -0.025						
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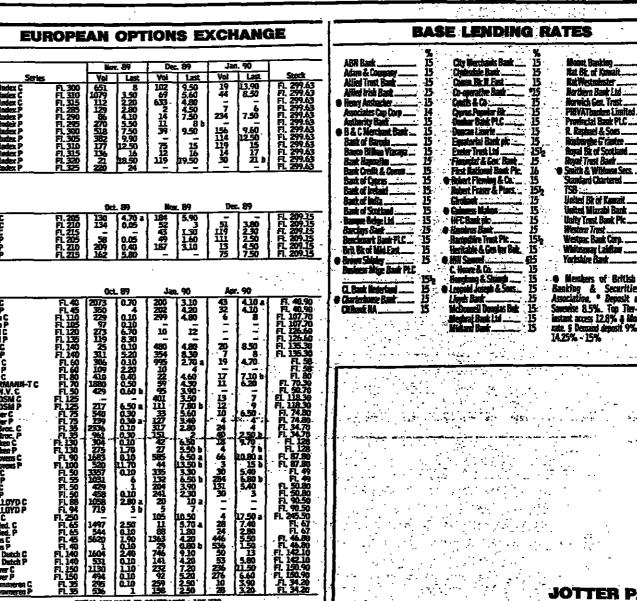
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Dec Mar	Goe 98-18 98-15	High 99-03 99-00 98-22	%-15 %-15	98-25 98-21 98-12	Des Mår		Close 0.7049 0.7096	High 0.7068	0.7040	Prev. 0.7068
Jon	98.67 97-31	98-22 98-12	98-12 98-05	48-12 18-12	Jun		0.7122	0.71,03	0.7078	0.710 0.714
Sep Dec Mar	97-25 97-15	98-02 97-15	97-30 97-23 97-15	98-03 97-26 97-18 97-10						
Jim Sea	97.07	-		97-10 94-21	9217	ÇHE (U 5,080 \$)		
Dec Mar	%-25 %-20	:		94-21 96-27 96-21			Clase	High	Lipse	Prev
Ji	~~	-	:	70-61	Dec Mar		0.5391 0.5395	High 0.5408 0.5406 0.5401	0.5380 0.5385	0.5417
U.S. TREAS	IDV OT IC	mun.		<u>.</u>	Jan		0.5400	0.5401	0.5400	0.5422
27th bojup										
Ces	92,99	High 93_11	10% 92.97	Pres. 93.02	THREE-MONTH EURODGLLAR (2004) Sign paints of 190%					
Mar Jor	93.12 93.12 92.98	93.32 95.22	93.22 93-12	93.24 93.15	Dec		Clase 91.67	High 91,78	Low 91.66	Pres
Sep	92,98	•	•	93.15 93.00			91.96 91.89	92.04 91.97	91.96 91.87	91.72 91.96 91.90
•					Sep Dec		91.78 91.58	91.86 91.65	91.78 91.57	91.80 91.60
					Mar Jug		91.60 92.55	91.66	91.59	91.63
					Sep		9151	91.61 91.57	31.55 91.55	91.52
SWISS FRA SF: 125,000	NC (DADA) \$ per \$fr					ARD & imes in				
Dec	Close 0.6154	Klpb 0.6175	L09- 0.6143	Prev. 0.6183	Dec		Close 250 50	High 350.60	15W 346.35	Prev. 349.10
Mar Jul	0 6163 0 6174	0.6182	0.6153 0.6175	0.6193	Mizer Jose		3050 5480 37.5	354.80 358.50	製架	353.85 383.15
Sep	0.6219	-		0.6257						
Mislanelpi 131,250 (cs	다 per CI) NA SE CIS	OPTIONS		•				<u>-</u>		
Şirlici Daine	Nov	D- C	ـــــــــــــــــــــــــــــــــــــ					Pots		<u> </u>
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1600 1425	1.26	2.07	3.	57 4	1.06 1.00 1.18	1.60 2.88	3.16 4.66		16 65	3.42 4.56 5.93 7.48 9.19
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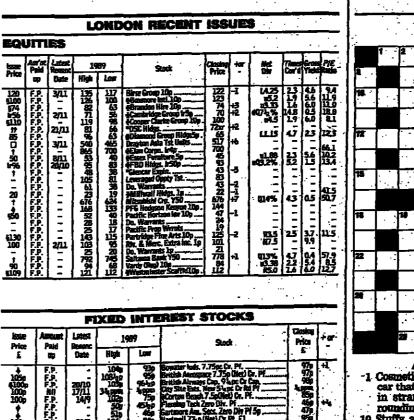
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KATIONAL AND			AY 0070	BER 20 198	9		THURSO/	A OCTOBE	1 19 1989	DOLLAR PROEX			
REGIONAL MARKETS Figures in parentheses show number of stocks	US Dollar	% change since Dec.30 '88	Pound Starling Index	Local Currency index	% change local cur- rency since Dec.30 '88	Gross Div. Yield	US Dollar Index	Pound Sterling Index	Local Currency index	1989 High	1989 Low	(approx	
bet Bronbjug	Index				+ 14.3	5.13	148.75	138,36	127.23	160.41	128.28	149.4 95.3	
Australia (85)	149,45	+3,4	139.49	128.68		1.55	163.64	152.21	157.30	172.22	92.84		
Austria (19)	162.57	+69.5	151.73	156.87	+77.0	4.02	141.94	132.02	. 136.69	144.49	125.58	128.4	
Beiglum (63)	142.52	+5.5	133.02	137.43	+ 10.4	3.20	151.30	140.72	128.62	154.17	124.67	125.6	
Canada (122)	150.70	+20.6	140.66	128.11	+ 18.1	1.56	205.34	190.98	201.01	219.89	165.35	148,5	
Deranark (36)	206.07	+20.9	192.33	202.99	+27.7		124.97	116.24	111.31	159.16	128.12	123.9	
Finland (26)	124,34	-5.0	116.05	111.16	-28	2.54	135.73	126.24	133.87	139.94	112.57	105.71	
France (126)	134.94	+17.3	125.95	133.36	+22.0	2.82	98.16	91.30	94.51	103.84	79.56	85,9	
West Germany (97)	98.12	+11.6	91.58	94.58	+ 16.6	2.17	112,26	104.41	112.54	140.33	86.41	705.6	
Hong Kong (48)	114.02	+20	106.42	114.32	+20	4.94	162.70	151.32	159.31	166.69	125.00	142.3	
Ireland (17)	162.83	+23.6	151,98	159.61	+29.3	2.77	88.71	82.51	90.37	96.73	74.97	84.3	
Italy (97)	89.22	+48	83.27	90.88	+9.5	2.51	185.61	172.64	168.54	200.11	164.22	169.7	
Japan (455)	186.16	-28	173.75	167.51	+ 10.7	0.48		184.77	205.81	209.22	143.35	139.4	
Malaysia (36)	199.93	+39.3	186.60	207.21	+38.4	2.58	198,65	286.57	880.23	326.61	153.32	156.4	
Mexico (13)	323.63	+100.0	302.05	925.28	+ 128.6	0.56	308.11	120.52	123.66	131.72	110.63	109.3	
Netherland (43)	126.20	+ 14.0	119.86	122,47	+ 19.2	4.33	129.57 78.90	73.38	70.55	88.18	62.84	73.5	
New Zeasand (19)	79.19	+17.1	73.91	71.42	+ 25.3	4.94		165.26	166.47	198,39	139.92	119.0	
Norway (24)	177.98	+28.1	166.12	167.47	+35.3	1.55	177.68	148.41	143.76	170.62	124.57	121.6	
Singapore (26)	159.54	+27.5	148.90	143.95	+28.4	2.06	. 159.56	135.63	124.76	150.24	115.36	1115	
South Africa (80)	145.14	+24.2	135.48	124.42	+26.6	4.58	145.82		142,87	169.75	143.14	149.56	
Spain (43)	160.08	+7.9	149.41	143.59	+ 12.7	3.64	159.96 180.65	148.78 168.02	171.76	188.94	138.45	129.4	
Sweden (35)	180.00	+24.5	168.00	171.67	+30.9	2.00	180.65 89.44	83.19	90.03	94.16	87.81	83.8	
Switzerland (64),	88.93	+13.9	83.00	89.59	+23.2	2.11	142.64	132.67	132.67	158.41	133.28	137,2	
United Kingdom (306)	141.71	+4.7	132.26	132.26	+ 19.3	4.59 3.28	141.02	131.16	141.02	146.29	112 13	115.5	
USA (547)	141.06	+24.6	131.66	141.06	+24.6	3.20				<u> </u>			
Europe (996)	125.42	+9.3	117.06	119.47	+18.B	3.51	125.92	117.12	119.65	132.95	112.63	113.48	
Nordic (121)	168.39	+20.6	157.16	156.04	+ 26.6	1.83	168.48	156.70	155.43	178.38	. 137,95	122.88	
Pacific Basin (880)	181.99	-23	169.86	163.91	+ 10.7	0.72	181.41	168.73	162.91	194.72	160.44	166.34	
Euro - Pacific (1865)	159,45	+1.1	148.82	146.11	+ 13.1	1.61	159.31	148.17	145.58	166.98 146.66	141.58	145.23 116.07	
North America (669)	141.53	+24.3	132 10	140.25	+24.2	3.27	141.53	131.64	140.25		112.79	98.59	
Europe Ex. UK (690)	114.44	÷12.7	106.81	111.45	+ 18.1	2.77	114.69	106.67	111.51	118.51	98.30		
Pacific Ex. Japan (214)	131.95	+59	123.16	119.05	+11.6	4,75	130.98	121.83	117 <i>.</i> 67 145.05	140.05 166.35	111.93	125.29	
World Ex. US (1860)	159.11	+1.9	148.51	145.55	+ 13.4	1.69	158.99	147.88 141.74	144.71	156.04	141.49 136.96	144.22	
World Ex. UK (2101)	152.59	+8.9	142.42	145.13	+ 16.6	1.99	152.40	140.95	143.70	155.92	- 136.87	133.22	
World Ex. So. Al. (2347)	151.64	+8.5	141.53	144.05	+16.8	2.19	151.54	125.98	131.93	140.43	134.51	115.54	
World Ex. Japan (1952)	135.29	+ 18.0	126,27	131.93	+21.7	3.43	135.43				<u> </u>		
The World Index (2407)	151.60	+8.6	141.49	143.92	+16.8	2.21	151.50	140.91	143.57	156.89	136.68	133.09	

Base values; Dec 31, 1986 = 100; Finland; Dec 31, 1987 = 115.037 (US \$ Index), 90.791 (Pound Sterling) and 94.94 (Local); Nordic: Dec 30, 1988 = 139.65 (US \$ Index), 114.45 (Pound Sterling) and 123.22 (Local).
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CONSTITUENT CHANGE: Name change: Suomen Sokeri to Cultor (Finland)(19/10/89).





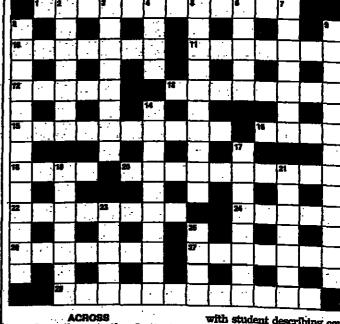
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Association, * Deposit now 5.9%
Sacrate 8.5%. Top Ter-£10,000 +
instant access 12.8% & Mortgage base
nate. § Demand deposit 9%. Mortgage
14.25%. 150. **JOTTER PAD**

CROSSWORD

No.7,070 Set by FRESCA



Cosmetic protection for top car that is reluctant to start in strangely macabre sur-

roundings (7.5)

10 Stuffy and lacking in time?

(7)

11 Apart — see below (7)

12 Extra good to Frenchman and American (5)

13 Model brought in to tidy up church for show (8) 15 Uproar: part of vessel (a

15 Optoar: part of vessel (a convenience) accommodates sallor (10)
16 Sec 4
18 Lovebird? (4)
20 Doctor imbued with universal skill and staying power

22 Perfect soul taking time off in Lincoln (8)

24 High notes going to the head in the tropics (5)

26 Beethoven's fourth

— swamped by his third

may excite or offend (7)

27 Pitch sensitivity shown by duke with peculiar sound

receiver (7)
28 Distractedly yell – frantic about holding note! (12)

with student describing centain glands (7)

3 A serving of the roast that can reduce resistance (8)

4 and 16 Direction of trade

was unexpected (8) 5 Leading lady on board? (10) 6 Break out of cooler up town

6 Break out of cooler up town
(5)
7 Said to be crazy about songsiress? (7)
8 Nothing in starchy bread
you deduce? What about
these, then? (18)
9 Mr Field's entry implying a
coadial relationship (8,5)
14 Investing a little money in
the public transport business gives one something to
lean on (10)
17 Tops up support of winner
in Australia (8)
19 Abandoned accountants?
Swelli (4,3)

Swell! (4.3) assuming a 21 Like an emperor avoiding a

risk (?)

23 Learning about one's river

may excite or offend (7)
27 Pitch sensitivity shown by
duke with peculiar sound
receiver (7)
28 Distractedly yell – frantic
about holding note! (12)
DOWN
2 Competitive field in which
head of dentistry appears

23 Learning about one's river
(5)
25 The old-fashioned accompaniment to gin up in the
Himalayse? (4)
The solution to last Saturday's
prize puzzle will be published
with names of winners on Saturday November 4.

WORLD STOCK MARKETS

ADSTRIA FRANCE (continued)	GERMANY (continued)	ITALY (continued)	SWEDEN	CANADA
High Low Scheler 20 Sch	Section Sect	49.3 22.5 6818 rocades 34.70 142.8 94.6 Helineker 2290.00 149.1 168.5 Hell. Beton 2290.00 119.7 75.1 Hoogoven 87.80 128 80.5 Haster Desplas 117.40 99.2 20 HIC Calland 325.50 111.8 77 Int Weeker 101.46 128.2 48.6 KLM 90.00 17.8 14.1 Kampan 10.80 17.8 16.3 KMP 90.50 17.8 18.1 KMP 90.50 17.8 18.1 KMP 90.50 17.8 18.1 KMP 90.50 18.5 76.7 Nilyerdal-Tec C: 90.50 18.6 18.7 Nilyerdal-Tec C: 90.50 18.7 17.7 One Griston 226.00 18.9 78.2 Sodamon 110.70 18.9 77.4 Rahaco 110.70 18.9 77.4 Rahaco 110.70 18.9 77.4 Rahaco 110.70 18.9 17.1 Nilyerdal 10.70 18.9 17.1 Rahaco 110.80 18.9 78.2 Sodamon 20.60 18.4 18.7 Rahaco 110.80 18.4 17.8 Unilver 150.90 18.4 17.8 Unilver 150.90 18.4 17.8 Unilver 150.90 18.4 17.8 Unilver 150.90	200 345 Mo Och Dem S Frm. 370 218 155 Permants S Free! 161 255 195 Sash-Stania B Free! 245 252 168 Sash-Stania B Free! 330 252 168 Sash-Stania B Free! 330 252 168 Sash-Stania B Free! 330 252 168 Sash-Stania B Free! 315 253 154 Sash-Stania B Free! 315 254 355 Sasa Etashida 104 257 357 Sash Etashida 104 257 357 Sash Etashida 117 257 357 Sash Etashida 117 257 357 Votro B (Free! 494 258 Lew October 20 257 355 Votro B (Free! 494 258 Lew October 20 257 355 Votro B (Free! 494 258 Lew October 20 257 358 Lew Cottober 20 257 358 Lew Cottober 20 258 1,900 Balcise Hid Ptg 2,1110 258 259 1,900 Balcise Hid Ptg 2,1110 259 250 1,900 Balcise Hid Ptg 2,1110 250	Solution State S
10,000 8,430 Da. AFV 1	296.3 207 Do. Pref. 268 473 340 Reismentall Berl 407 521 230 Reismentall Berl 407 521 230 Reismentall Berl 407 521 230 Reismentall Berl 407 526 369 253 Reismentall 344 3629 541.7 Schering 780 153 150 Schmallhach-Lub 166 362 2 594.5 Steringer Vig Rg 534 362 445 Springer Vig Rg 534 3721 535 Sof-Chemie 720 241 159.3 Tryeson 234.5 241 159.3 Tryeson 234.5 241 159.3 Tryeson 234.5 235 24 167.2 V.E.W 165 465 382 247 167 288 248 167.2 V.E.W 165 465 382 247 167 288 248 167 2 V.E.W 331.5 349.2 308.4 Volkismagen 433 317 499.2 308.4 Volkismagen 433 316 550 386 550 386 187 187 187 187 187 187 187 187 187 187	1989	13,500 9,600 Sendox (Br) 12,125 2,405 1,625 Do. (P.Cts) 2,105 6,750 4,850 Schindler (Br) 5,850 1,240 755 Do. (P.Cts) 2,105 880 735 Sile 810 3,900 4,475 Surveillance 5,175 1,445 965 Serbsair 1,250 384 284 Serbs 8ask 326 315 256 Do. Ptg 273 14,700 9,400 Serbs Reiksce 14,100 2,205 1,550 Do. Ptg 2,255 1,875 1,600 Serbs Voltsbir 1,700 4,180 2,930 Union Bank 3,755 1,875 1,600 Serbs Voltsbir 1,700 2,100 3,670 Wilderther 4,675 844 645 Do. Ptg 7,74 5,865 4,325 Zertch bs 5,100 2,375 1,675 Do. Ptg 1,980	1800 Calanese 529 2872 - 72 1913 Cen Capital 512 12 12 17500 CanCapital 512 12 12 17500 CanCapital 512 12 12 17500 CanCapital 512 12 1800 Calcapital 512 12 1800 CanCapital 512 12 1800 CanCapital 512 12 1800 CanCapital 512 12 1800 CanCapital 512 1800 CanCapital 512 1800 CanCapital 512 1800 CanCapital 513 1
Section Sect	1989	\$70 \$800 Exterior \$70 \$70 \$800 Exterior \$70 \$7	4.7 1.75 Abercon 1.85 22.5 14.5 AEC	Composite 192.12 192.17 189.32 188.89 199.34 154.93
1989	2,190	1989	AlfSTRALTA Icontinued 1989 High Lew October 28 Aust5 2.73 1.6 Milm 2.46 1.25 0.97 McPhernoss 1.07 7 4.9 Mayne Hickless 6.30 6.94 5.8 Nat. Aust. Bant. 6.74 3.8 2.6 Nat. Consolidated 3.50 1.2 0.75 McPhernos Aust. 0.85 1.4 0.33 Narthern Star 0.38 0.77 0.3 Outbridge 0.38 0.77 0.3 Outbridge 1.05 5.3 3.82 Pacific Dunlop 4.91 2.51 1.5 Pamont 1.90 3.54 2.4 Petersville St. 3.22 2.31 Ploneer hatt. 2.76 0.99 0.36 Ploneer Mining 0.72 3.32 2.1 Ploneer hatt. 2.75 0.99 0.36 Ploneer Mining 0.72 3.1 1.5 Posicion 2.75 0.1 0.5 Protection 2.75 0.99 0.36 Santof Gwallia 3.03 0.96 3.35 Santhi (H.) 3.03 0.96 3.35 Santhi	NEW YORK ACTIVE STOCKS TRADING ACTIVITY Stocks Glosing Change Price on day Price on
4,350 3,420 Chapter II Power . 3,630 1,200 872 Cities Watch . 1,620 1,470 1,070 ktyps Selles	1,650 1,250 Missas Motor 1,530 1.250 1.250 Missas Motor 1,530 1.880 1,480 Missas Motor 1,650 1.880 1,480 Missas Miss	1,300 Teshiba Hashary 1,30 1,	HONG KONG 1989 Price High Law October 20 R.K.\$ 4.25 2.07 Army Props. 3.02 18.7 12.1 Bank Exit Asia 15.10 10.3 7.55 Cattag Pacific 9.05 11.5 6.35 Chenng Rong 9.10 15.5 10.7 Calsa Light 12.60 77.25 17.3 Calsa Motor 22.20 15.8 11.9 Cross H'bour Tin 13.50 15.3 1 Dae Hang Hidgs 1.24 3.92 1.57 Entry 0 2.90	Tokyo - Mest Active Stocks Friday October 20 1989 Stocks Closing Change Traded Prices on day Tokyo - St. May - 100 Tokyo - 10
1,300 1,500 1,500 1,500 1,300 1,300 1,50	980 796 Gaska Gas 200 1,720 990 Penca Gospin Gai 1,340 6,170 2,880 Ploneer 6,030 1,340 1,120 Prima Meat Pact. 1,050 1,550 916 Renoten 1,550 3,750 2,200 Royal Co 3,200 1,120 Root 7,000 1,120 Root 8,000 1,120 Roo	1,790 1,831 Yorkshirt Land 2,700 1,60 1,207 Yorkshirt Land 2,700 1,60 1,007 Yorkshirt Land 1,860 1,609 1,007 Yorkshirt Land 1,860 1,609 1,007 1,009 1,	7.1 3.22 Henderson Land . 5.40 23 14 HK Aircraft	12 issues free when you first subscribe to the Financial Times When you take out your first subscription to the FT, we'll send you 12 issues free. For further information and details of subscription rates, complete the coupon and return it to: Wilf Brüssel Financial Times (Europe) Ltd. Guiollettstrasse 54 D-6000 Frankfurt am Main 1 West Germany Tel: (069) 7598-101 Please send me details about Financial Times subscriptions Name Title Company Address

YORK STOCK EXCHANGE COMPOSITE PRICES

Low Book | Div. Year | 1986 | 100 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 10 7-12 Anthony 6.47

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24, Master, 22
25, National 25
26, National 35
26, National 4
26, National 4
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26, National 36
27, National 1, National 38
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28, National 38
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1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 |

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Sales figures are unofficial. Yearly highs and lows reflect the provious 52 weeks plus the current week, but not the latest tracking day. Where a split or skock dividend amounting to 25 percent or more has been paid, the year's high-only range and dividend are another to be select dividend are another in the latest of dividend are another in the latest declaration.

a-dividend are straigh, b-annual rate of dividend plus stock dividend. c-liquideting dividend. cid-called, d-new yearly low.

a-dividend declarated or paid in preceding 12 months, g-dividend in Canadian funds, subject to 15% non-residence tax. i-dividend declared or paid in preceding 12 months g-dividend declared after split-up or stock dividend. i-dividend paid the year, ornited, deterred, or no action taken at latest dividend meeting, i-dividend declared or paid in preceding 12 months, plus stock dividend meeting. i-dividend declared or paid in preceding 12 months, plus stock dividend declared or gaid in preceding 12 months, plus stock dividend. sectors split. Dividend on the dividend paid in stock in preceding 12 months, plus stock dividend. Sectors split. Dividend or ex-dividend paid in stock in preceding 12 months, plus stock dividend, sectors split. Dividend or ex-dividend paid in stock in preceding 12 months, plus stock dividend, value on ex-dividend or ex-dividend with date of split, situated cash value on ex-dividend or ex-distribution due notwork as such as a section of the sectors are such as a section of the sectors are such as a sector of the sectors and the sectors are such as a sector of the sectors are sectors and the sectors are sectors and the sectors are sectors. 4pm prices October 20

AMEX COMPOSITE PRICES ### Standard | Division | Divisio

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Coron 5.50.
Cross 6.50.
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Silock

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NASDAQ NATIONAL MARKET

Sheeks Didotte All Joseph Didotte Didot

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FINANCIALTIMES



When IBM looks a little like **BAT**

"WE DO NOT see anything in the fundamentals of our business that would cause us to change our strategy of invest-ing in profitable growth," said mr John Akers, chairman of IBM, when announcing a 30 per cent fall in the company's quarterly profits last week.

Such "Jam tomorrow" statements could easily be dismissed as the sort of thing top managers say to reassure shareholders when their companies are going through a rough patch. Just keep the faith, trust in us and we'll pull

in IRM's case, admittedly, a rather large dose of faith may be needed. Though the company's earnings-per-share have gradually recovered in each of the last three full years, they have yet to regain their 1985 level, while its share price has under-performed the US stock market by 60 per cent since

However, Mr Akers' statement deserves closer examina-tion, for it contains an implied tun, for it contains an impical assumption which is increas-ingly questioned in the com-puter industry: that while the ingredients of IBM's business may be changing, the master recipe remains as sound today as it was in the past.

Core business

A less sympathetic analysis might conclude that soufflés do not rise twice. Indeed, the once invincible IBM today looks open to some of the more telling criticisms levelled at Britain's BAT by Sir James

Each company is built around a business (mainframe computers and tobacco) which is immensely profitable and generates huge amounts of cash. But both businesses are also mature, with unexciting growth prospects. In IBM's pounded by relentless comp tion from Japan and by technological change, which has enabled smaller, cheaper com-puters to usurp many of the nainframe's traditional func-

IBM has sought to diversify within the electronics industry but, like BAT, it has had limited success in finding new ventures offering returns com-parable to those on its core business. Its moves into telecommunications proved an expensive flop, and it is a weak contender in many fast-growing niche computer markets, such as laptops and

In these markets, the growing "user-friendliness" of prod-ucts has eroded one of IBM's biggest advantages – its abil-ity to charge high prices in return for holding the hands of customers bewildered by the customers newlinered by the sheer complexity of their computers. Furthermore, even IBM's legendary control over industry standards is now being challenged by smaller microelectronics and software firms, which have increasingly seized the initiative in product

Better returns

IBM's market capitalisation of almost \$60hn probably puts it beyond reach of a hostile bid. But the company faces a challenge not unlike that con-fronting BAT. It needs to sat-isfy its shareholders that, by managing an increasingly diverse portfolio of busines on their behalf, it can obtain higher returns than if they invested the money for them-

It is two decades since the Johnson administration launched an anti-trust action seeking to break up IBM on the grounds that it was excessively dominant. Six years ago, the Reagan administration dropped the case, partly because it believed the US needed giant companies to slug it out on world markets against the Japanese.

Today, both lines of argument look flawed. IBM's sheer weight has not stifled competition in the US computer industry, nor has it turned back the technological challenge from Japan. If anything, the company's size has proven one of its biggest handicaps, saddling it with high costs and imped-ing its speed of market

This raises interesting ques-tions for debate by trust-busters. But for businessmen and particularly those in Europe who are urging the creation of European champion" companies in advance of

Guy de Jonquières

s the eighth generation of a wealthy Dutch mer-chant dynasty, Mr Paul Fentener van Vlissingen and his family are pondering the difficult question that most

such dynasties eventually face. Should the family business in this case SHV, a peculiar amalgam of energy activities and consumer goods — be floated publicly if none of the heirs wants to run it? Mr Fen-tener van Vlissingen, president and chief executive officer of SHV, believes that — wrenching as that might be — the company ought to go public if an outsider were made chair-

"I simply don't believe a privately held company without a family manager works," insists Mr van Vlissingen, who is 48. "Shareholders will always

want more money."

SHV is one of the largest private companies in Europe, with sales of Fi 12.2bn (£3.7bn) in 1988 and operations in nearly 20 countries, including Albania, China and the Soviet Union. The Fentener van Vlis-singens are among the richest families in Europe, with a for-tune estimated at F15bn, and one of the most flamboyant patriarchies in The Nether-

lands. Combining an entrepreneurial flair and artistic inclination, they have always stood out in the relatively flat landscape of Dutch industrialists. Their his-

torically close links with Germany have aroused suspicion and jealousy.

The family's trading empire began in 1790 with Spice Island textiles and German coal. In 1802 the Fenturer way Viceta. 1896, the Fentener van Vlissingens linked up with six other coal traders in Utrecht, Rotterdam and Amsterdam to form Steenkolen Handelsvereniging (SHV), a cartel set up to import German coal and drive out

German coar and unive out.
English competitors.
One of the cartel members was the van Beumingen family, which was linked to the Fentener van Vlissingens by marriage, and the two soon got control of SHV.

By the 1920s, SHV was biggest employer in The Netherlands, monopolising inland coal shipping with barges car-rying grandiose names from Wagner operas, like Tristan and Isolde. It built up large operations in Rotterdam. Around this time, Frits Fen-tener van Vlissingen, Paul's grandfather, co-founded Akzo, Hoogovens and Fokker. This trio of Dutch blue chips also has had close links to Ger-

After the Second World War, Jan Fentener van Vlissingen, Paul's father, took over SHV while the van Beuningens, who shared his passion for art, departed. They took with them SHV's holding in Royal Dutch/ Shell — SHV was the biggest shareholder at the time - and co-founded Robeco and the Boymans-van Beuningen Museum in Rotterdam. Mindful of long-held suspi-

MONDAY INTERVIEW

Staying privately Dutch

Paul Fentener van Vlissingen, the chief executive of SHV, talks to Laura Raun

cions of family sympathies with Nazi Germany, Paul Fen-tener van Vlissingen goes out of his way to mention the war during interviews.

"My father was the head of the resistance in Utrecht and was taken by the Gestapo," he explains. "It was a miracle my father got out of the war after they smashed the (Rotterdam) harbour, the coal works, train cars and ships." His father had tremendous resillence, he says, and got the company on its

Compared with traditional Dutch management style, which stresses organisation and planning, Mr Fentener van

'My grandfather was a co-founder of KLM when no one thought airlines would be commercial. We try to have the same spirit at SHV. We seek the unusual, something that has not been done before'

Vlissingen is a radical rene-gade. He believes in "creative chaos," spontaneity and short communication lines.

"I'm the product of eight generations of entrepreneurs," he says. "I was brought up, along with my two brothers, with original thinking.

"My grandfather was a co-founder of KLM when no one thought airlines would be commercial. We try to have the same spirit in SHV. We seek the unusual, something that has not been done before Those who work for Mr Fentener van Vlissingen would no held by several hundred Those who work for Mr Fendoubt endorse that he is

"unusual". He once brought

SHV managers from around the world to corporate headquarters in Utrecht and had them write poems about SHV. They had to use a given animal to describe the company.

"Some deep insights were brought out in a hilarious way," he says.

To celebrate the 50th birthday of a manager, the unorthodox executive threw a party

Mr Fentener van Vlissingen is tall, lean and aristocratically handsome. Always impeccably attired, he sports a scarab ring

writer, conservationist and artist. He wanted to study philosophy but ended up doing eco-nomics at Groningen University, after studying for a

while at Oxford. He has exhibited at the Edinburgh Arts Festival and in conjunction with Caroline Tisdall, an English journalist, has pro-duced a glossy book of photographs and poems celebrating Witches' Point in Scotland's Wester Ross. Mr Fentener van Vhissingen owns 70,000 acres in Scotland — he particularly cherishes it because of his mother's Scottish ancestry.

The family has created a lab-

printh of foundations and holdings to maximise control of assets and minimise taxes which have been quite punitive in the past. The family's 65 per cent of SHV is held by a foundation. Its directors are Paul, his brothers John and Frits, two other family members and two outsiders - always promi-

nent Dutchmen The three brothers and their per cent of SHV's shares. Another two dozen or so family members own the other 15 per

descendants of the founding families. Shares can be sold

'Once I had to fire a man . . . and he committed suicide.'

where everyone wore live boa constrictors around their

on his little finger. He is also a poet, short-story

for years."

Energy activities account for about 35 per cent of SHV's revenues, and last year the company became a European leader in liquefled petroleum gas (LPG) when it gained control of Calor, the biggest LPG company in the UK, and Primagaz, similarly important in France.

SHV acquired 42 per cent of for years."

SHV acquired 42 per cent of Calor by selling its oil and gas interests in the Brae fields of the North Sea and gained control of Primagaz by promising to consolidate its continental European LPG activities into the French company. This is an area intriguing

only to other heirs.
SHV wants to remain privately held so it can pursue strategic policy without undue pressure from outside shareholders. "We have so much

more time as a private com-pany. We can stalk a company

the London stock market, as analysis try to fathom SHV's long-term intentions towards Calor, Burmah, owners of Castrol, and Premier Consolidated, a small oil company. SHV has shares in all three companies and has recently increased its

stake in Burmah. "We try to do deals in SHV which may sound complex but that is only because they are unusual," says Mr Van Vlissingen. He denies wanting to own 100 per cent of Calor. Net income jumped 25 per cent to Fl 221m in 1888, due

mostly to acquisitions. How-ever, growth was a more mod-est 7 to 8 per cent in each of the two preceding years. About 65 per cent of SHV's sales is derived from the Makro and stores and Otto Reichelt supermarkets in Berlin.

markets in Berlin.
Roughly 85 per cent of SHV's turnover comes from abroad.
While SHV has the borrowing capacity to mount a £1bn acquisition and has huge secret reserves — billions of guilders says Mr Fentener van Vissingen — the family is still Vilssingen - the family is still interested in searching out fresh money to finance its ambitious plans for expansion. This explains SHV's current interest in tapping other funding sources.

Aside from a bourse listing to raise money, which is under study, a private placement of non-voting preferred shares also is possible. Non-voting shares are forbidden in The Netherlands but are allowed in West Germany, where Nixdorf, Porsche and Bertelsmann have issued them.

Now equity financing is possible through Calor's listing on London's International Stock Exchange and Primagaz's listing on the Paris Bourse. SHV has secret stakes in other companies in the UK. West Germany, Belgium and the US, according to Mr Fentener van Vlissingen. Recently it infuriated Ahold, the Dutch retailer, by selling a secretly acquired 12 per cent stake to Asko of West Germany.

The company is decentralised. Only 49 employees work in corporate headquarters out of 27,300 worldwide. Business acumen seems to run in the family blood. John Fentener van Vlissingen, who

is 50, manages \$7bn (£4.4bn) of funds through his NORO investment company, which channels money into venture capital and US real estate. Frits Fentener van Vlissingen, 56, is managing director of Flint Holding, believed to be the holding company for the family fortune.

The three brothers together hold at least 16 supervisory board seats at some of the Netherlands' most powerful companies. "I consider myself extremely lucky because I have such supportive brothers. They could ruin my life if they were breathing down my neck all the time."

M. Paul Fentener was Visc.

Mr Paul Fentener van Vlis-singen sees himself more in the mould of a Lord Hanson than a Sir James Goldsmith. "Once I had to fire a man very early on in my career, and he committed suicide. It was a lesson for life. When you do things, even if the business rationale is there, you have always to realise that behind every business upheaval there is a human face." When he took over six years ago, he cut head office staff from over 400

talked to each employee. "You can't make money your first object in life," he insists. There is a social responsibil-ity, especially when you are known to be a wealthy family. We feel part of the world society, as an extremely wealthy family."

to under 50; but, he says, he

Judicial inquiry must be thorough

many miscarriages of justice - uncovered, let alone undiscovered - for any-one to be deluded into thinking that it is only the machinery for appellate review of criminal convictions or the proper evi-dential value to be attached to uncorroborated confessions that needs careful examination. It is vital that Sir John May in his judicial inquiry should examine the fundamental weakness of the English criminal justice system. Any-thing less than a thorough review of the whole criminal process will fall short of the challenge presented to a civilised society by so sorry a tale as that revealed by the case of the Guildford Four.

Too often in the past there has been a consistently piece-meal approach to the problems thrown up by the system of criminal justice. The flaws in the police methods of identification of accused persons was the subject in the early 1970s both of a departmental committee under Lord Devlin and a valuable decision from the Court of Appeal. Confessions have always been a worrying aspect of criminal investiga-tion. The Police and Criminal Evidence Act 1984 deals generally with the detention, treatment and questioning of people by police officers. It does not extend to terrorist crimes and other of the most serious crimi-

nal offences. Had the provisions in the Act applied to the Guildford Four in 1975, the police officers might have been less inclined to concoct confessions. The dif-ficulties inherent in false confessions was highlighted in the late 1970s by the Confait case when two young men and a boy were wrongly convicted of the murder of a transvestite homosexual in a house in Lewisham. The disclosure of that miscarriage of justice led to the setting up of the Royal Commission on Criminal Procedure which reported in 1981 and led to the 1984 Act. That Act reflected workable guidelines for the police in their investigation of serious crime while at the same time

strengthening the safeguards



for the individual. But that study and ensuing legislation were restricted to a revision of the established sys-tem of criminal procedure. It did not involve any question-ing of the theoretical underpin-ning of the criminal justice system and it stopped short of any examination of the trial process. The role of the legal profession, the function of the judge and jury within the courtroom setting was strictly out of bounds to Royal commissioners. And when the Government turned more recently to the Roskill Committee on Serious Frauds, the Committee's recommendation to sub-stitute a professional tribunal for certain complicated cases of fraud the Government weakened in the face of a hostile reception from a large body of practising lawyers which did not favour any tampering with jury trial. Trial by jury itself, with the consequences of an unarticulated verdict which severely hampers a proper appellate system ought to be

examined by Sir John May. There have been other segments of the criminal process that have remained worryingly untouched by patchwork reforms. The Confait case itself dramatically exposed the frailties of much forensic evidence. The medical experts who gave evidence for the prosecution wrongly estimated the time of the victim's death. This factor led to the reopening of the case and the ultimate reversal of the wrongful convictions. If all these defects and applied remedies are viewed selectively, the overall picture

becomes clear. The investiga-

tion of crime by the police and

the process of criminal prose cution do not come under any kind of judicial scrutiny until trial, and then the court is to try the accused and not review ex post facto the conduct of the police or the prosecution.

police or the prosecution.

The analysis of evidence accumulated from the moment of the crime is postponed until the day of trial. This is the major defect in the English system. Quite apart from this deferment of defermining who is respectively for the criminal is responsible for the criminal event under scrutiny, the accu-mulators of the evidence to be placed before the court of trial are left largely to their own devices. Police officers collect the material which they think support the case against those arrested and charged, and may and often do discard or ignore material that points in another direction. In this process the defence is hopelessly handi-capped. If there is the opportunity to the defence to conduct its own inquiries, it occurs only after the accused has been arrested and charged. There is, for example, no forensic pathologist at the scene of a murder to protect the interests of a potential accused. He is at the mercy of the doctors who conducted any post-mortem and who give evidence on behalf of the prosecution.

European legal systems logi-cally require judicial control over both the investigation of crime and the gradual compilation of a dossier as and when the evidence was acquired and analysed. The Procurator Fiscal system in Scotland exhibits the like approach to criminal investigation. To advocate judicial control over the criminal process from the moment the crime is uncovered is not to throw over the adversarial nature of the English criminal trial in favour of the inquisitorial system adopted by western European countries. The Crown would still be left to establish at trial its case beyond reasonable doubt; the defence would be entitled to put the Crown to proof. The difference would be that the umpire would be in place at the start of play and not only when one side has completed

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